LIMITED SITE DATA

SOUTH HILL DUMP

TOWN OF CORTLANDVILLE, CORTLAND COUNTY, NEW YORK

SITE NO. 712009

These documents that follow are **NOT** part of the Contract Documents for the remedial work at the South Hill Dump 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.

TABLE OF CONTENTS

REPORTS

TEST PIT REPORT

The Test Pit Report depicts site conditions as they were known to have existed in November 2010. This information is being offered for consideration when planning the remedial work.

South Hill Dump Site

Site No. 712009

South Hill Road, Cortlandville, NY

report.hw712009.2011-01-25.S.Hill_Dump_Inspection_Report

	AM	PM
Weather:	Light Rain	Light Rain
Temp (deg. F):	48	45
Wind (mph):	SSW 18	W 17
Total precipitation: trace		

Contractor: Empire GEO Services

Engineer conducting oversight: MACTEC Engineering and Consulting (Phil Muller).

This report prepared by MACTEC: Buyanna Stiles **Checked by:** Mark Stelmack

Philip Muller w/permission by P.J.M. **Mark Stelmack**

Report No. 1

Date: 11/17/10

General Description of Work Performed:

The contractor conducted eleven test pits to delineate the limit of solid waste boundary at the northwest side (road side) of the site.

Meetings:

Health and Safety tailgate meeting between the contractor and MACTEC.

Contractor's Personnel

Classification	No.	Hours	Notes
Operator	1	6	

Contractor's Equipment

Description	Size	No.	Hours	Other
Backhoe	Ford 555E	1	6	

Description of Tests/Inspections Performed:

Eleven test pits were conducted as shown on the attached mark-up of the remedial design Existing Condition Plan, Drawing C-101. Also attached are test pit logs and sketches.

The Global Positioning System (GPS) was used to identify limits of waste in the areas where the test pits were conducted. The GPS unit used was a Trimble GeoXT which typically provides accuracy to within approximately three feet.

Materials Received: None

Equipment Calibration: None

Acceptance of Work and/or Corrective Actions:

The contractor performed the items identified in the Test Pitting Services Scope of Work, October 19, 2010.

Photo Log:

Photo 7577. TP-2, looking toward landfill from toe of slope (South Hill Road). Test pit uncovered weathered bedrock and bedrock immediately below the surface. Solid waste located approximately 60 ft from toe of slope.

Photo 7579. Solid waste uncovered at TP-2, within 1 ft of the surface.

Photo 7585. TP-3, looking toward landfill from toe of slope (South Hill Road). Test pit uncovered shallow weathered bedrock. Waste located approximately 80 ft from toe of slope.

Photo 7595. Solid waste uncovered at TP-1D, which extended into the adjacent berm.

Photo 7603. TP-4 looking toward slope, which contained sand and gravel. At the toe of the slope there was a thin layer of solid waste, visible on the right side of this test pit.

Photo 7605. Solid waste layer (approximately 2 ft thick) in TP-5, looking toward slope.

Photo 7611. No solid waste layer in TP-6, looking toward slope.

Photo 7613. No solid waste layer in TP-6, from toe of slope.


No solid waste: TP-1A, TP-1B, TP-1C
TP-6, TP-8
All Solid Waste: TP-1D, TP-5
X – indicates limit of solid waste
INV 1659.13
Large Tree
LOW – Limit of Solid waste
SOLID WASTE OBSERVED ON SURFACE OF BERM CONFIRMED BY TP-1D
TOWN OF CORTLANDVILLE
(REPUTED OWNER)
TAX 109.00-1-02
L. 287 P. 852
AREA
471,974± SF
OR
10.835± ACRES
CENTERLINE OF RIGHT-OF-WAY
ROAD RIGHT-OF-WAY PER DEED
STEELE HILL ROAD
DRAINAGE WAY
UNPAVED TRAIL
TREES & BRUSH
MIXED HARDWOODS
BARBED WIRE FENCE
APPARENT
SW001
SW002/SD001
SW003/SD002
SW004/SD003
SW006
SD007
TP-1A
TP-1B
TP-1C
TP-1D
TP-2
TP-3
TP-4
TP-5
TP-6
TP-7
TP-8
Tires
Low
EM 5
EM 6
EM 7
EM 8
EM9
EM10
EM11
EM12
EM13
EM14
EM15
EM17
EM18
EM19
EM31
EM32
EM34
EM35
EM36
EM37
EM38
EM39
EM40
EM41
1" = 50'

Test Pit Log

Test Pit No.: TP- 1A

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 2.5'

Water Level (BGS) N/A

Ground Elevation: N/A

Proportions: (-) Amount (+)

Trace (tr) 0-10%
Little (l) 10-20%
Some (so) 20-35%
35-50%

Abbreviations:
f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					2" leaf litter / grass / organic		
1					grey, sandy silt, pieces of weathered bedrock (2-2.5' thick)		
2							
					2.5' bgs - rock		
3							

Notes:

See Page 2 for Test Pit Sketch

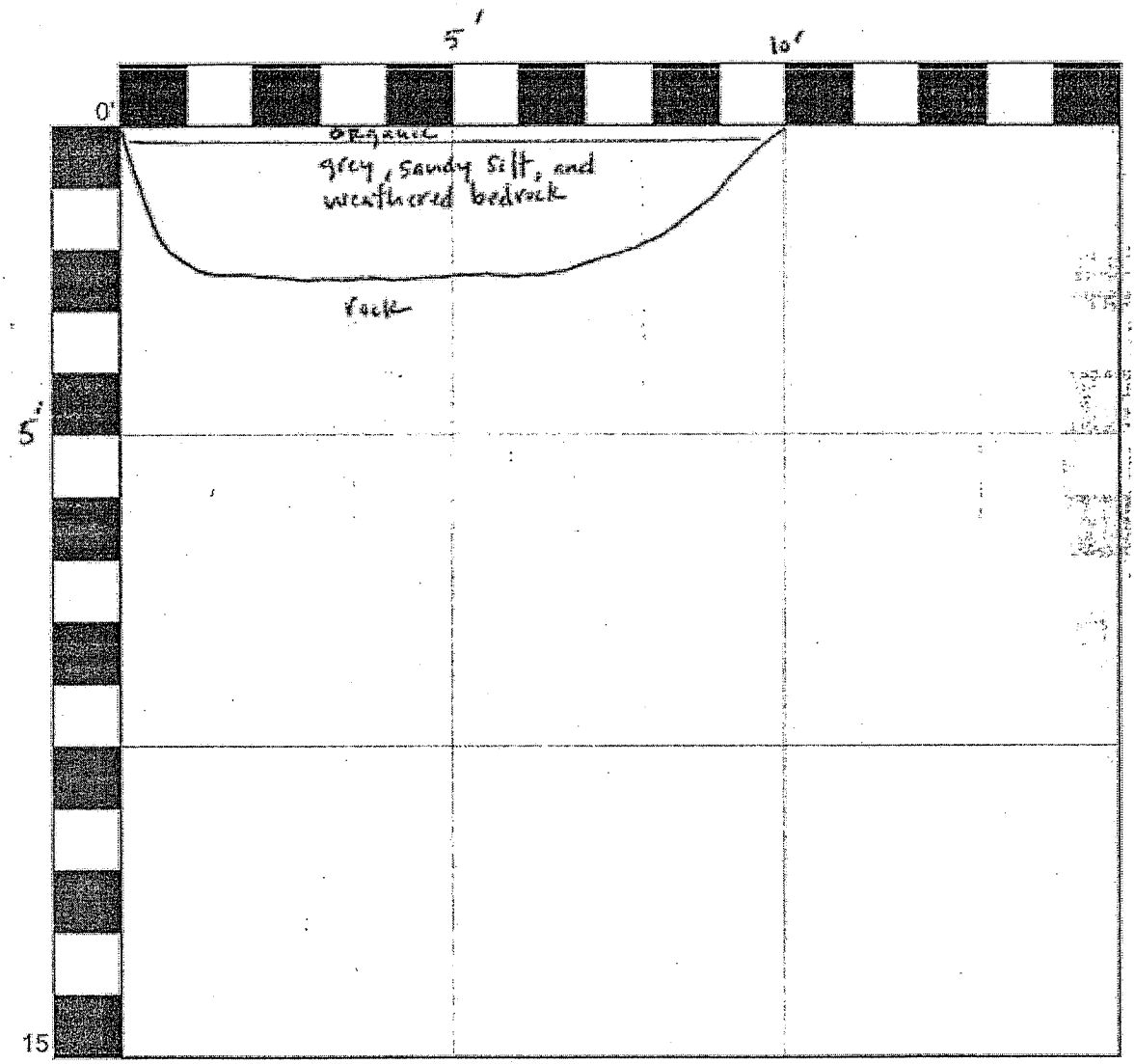
MACTEC

Created by: PM
Checked by: PM

Test Pit Sketch

Test Pit No. TP- 1A

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	8/11/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: JM

Test Pit Log

Test Pit No.: TP- 1B

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 0.5'

Water Level (BGS) N/A

Ground Elevation: N/A

Proportions: (-) Amount (+)

Trace (tr) 0-10%
Little (l) 10-20%
Some (so) 20-35%
35-50%

Abbreviations:

f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					Topsoil over weathered bedrock		
					Rock @ 0.5' bgs		
1							
2							

Notes:

No Solid waste encountered

See Page 2 for Test Pit Sketch

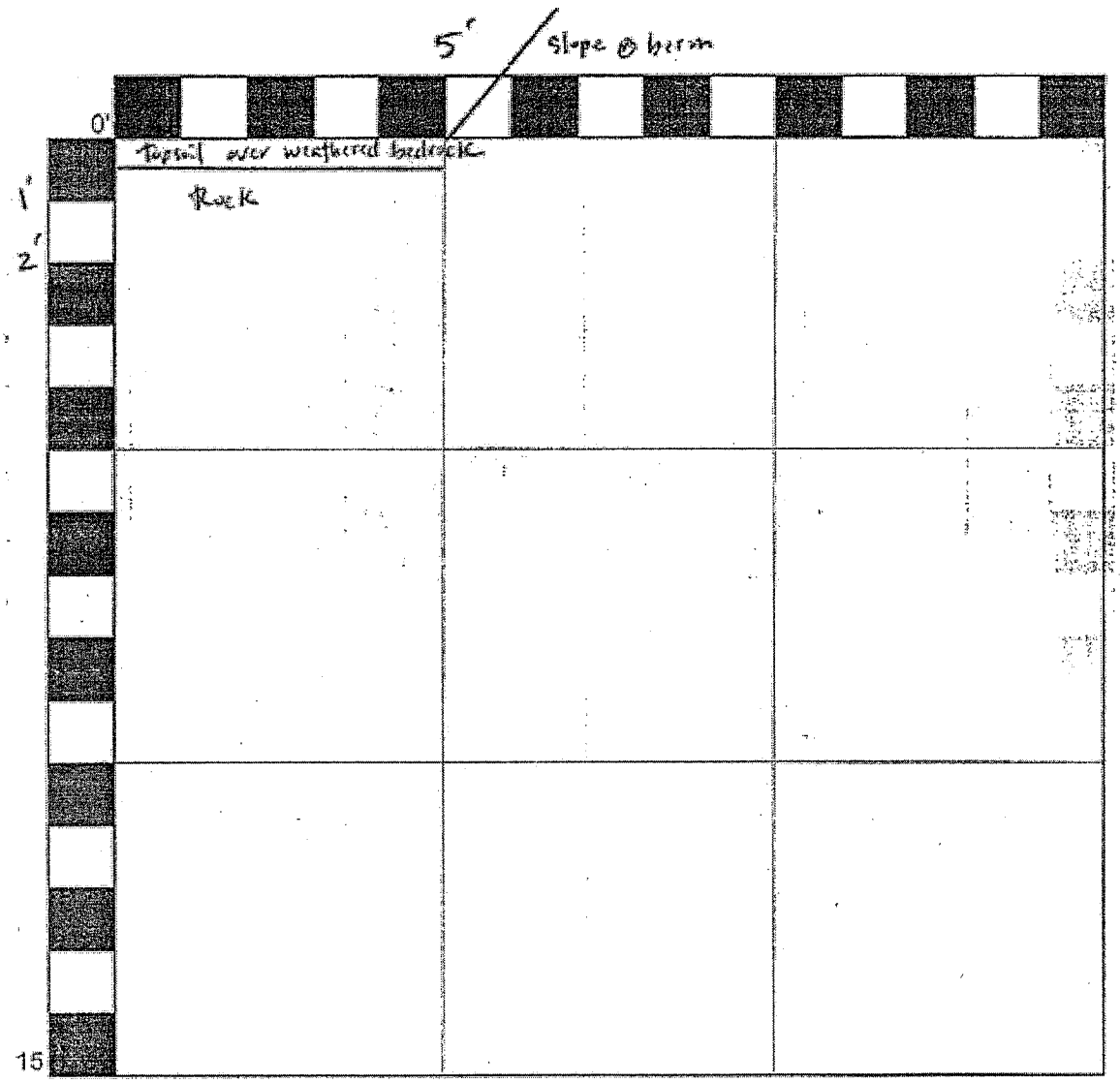
MACTEC

Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 1B

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	11/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 1C

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 0.5 | Water Level (BGS) N/A | Ground Elevation: N/A

Proportions: (-) Amount (+)
Trace (tr) 0-10%
Little (l) 10-20%
Some (so) 20-35%
35-50%

Abbreviations:
f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					Topsoil over weathered bedrock		
					Rock @ 0.5' bgs		
1							
2							

Notes:

See Page 2 for Test Pit Sketch

MACTEC

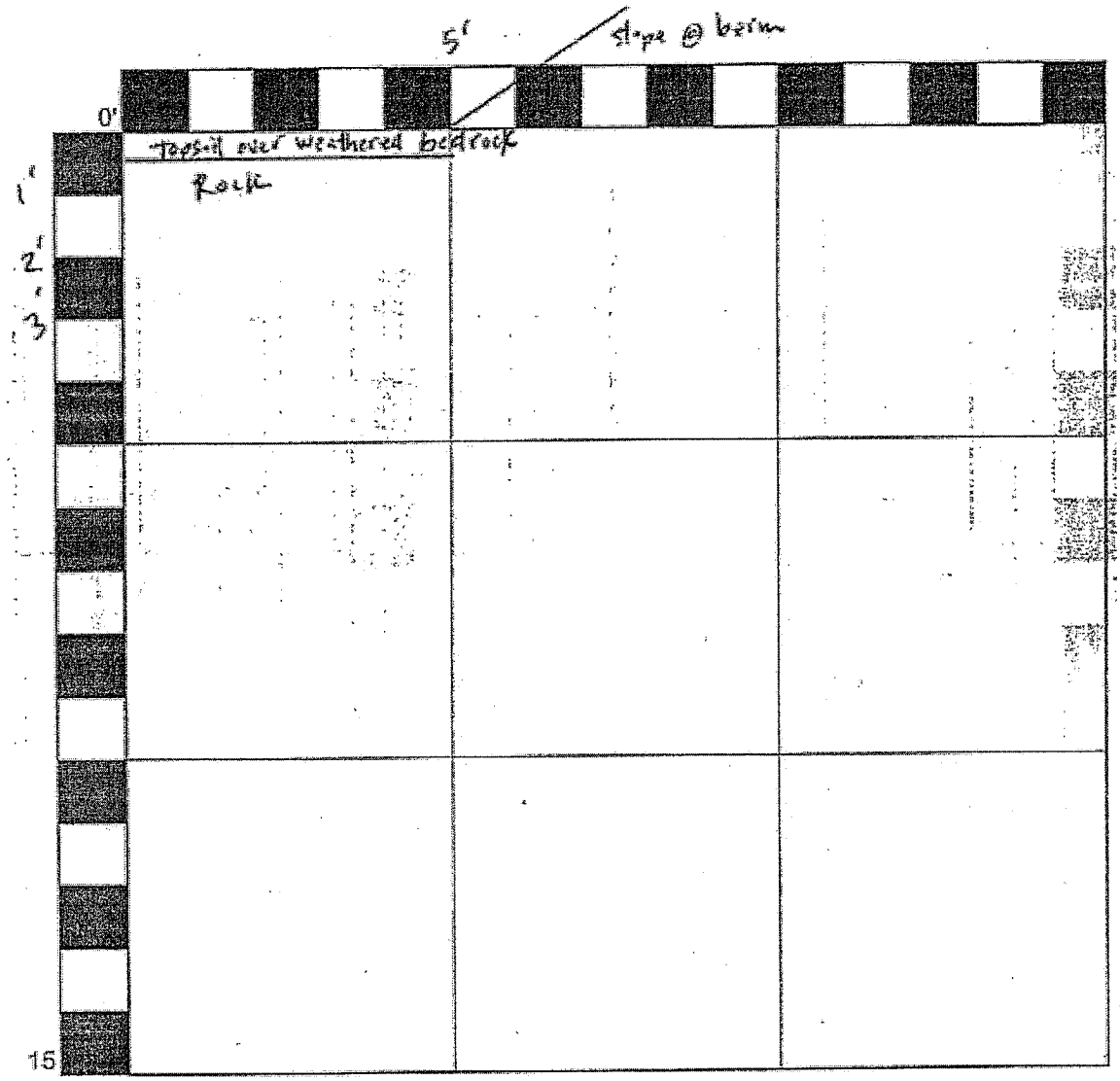
Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 1C

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	8 11/17/10		
Contractor:	SJB	Method:	Backhoe
Operators Name:	Randy Steiner		

Equip. Type: Ford 555E



MACTEC

Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 1D

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: (pm) ~~3.5~~ 2.5' | Water Level (BGS) N/A | Ground Elevation: N/A

Proportions: Trace (tr) 0-10%; Little (l) 10-20%; Some (so) 20-35%; 35-50%

(-) Amount (+)

Abbreviations: f = fine; m = medium; c = coarse; gr = gray; bn = brown; blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					Topsoil + Leaf Litter		
1							
					Solid Waste		
2							
					Bottom of Test Pit @ 25' bgs		
3							

Notes:

See Page 2 for Test Pit Sketch

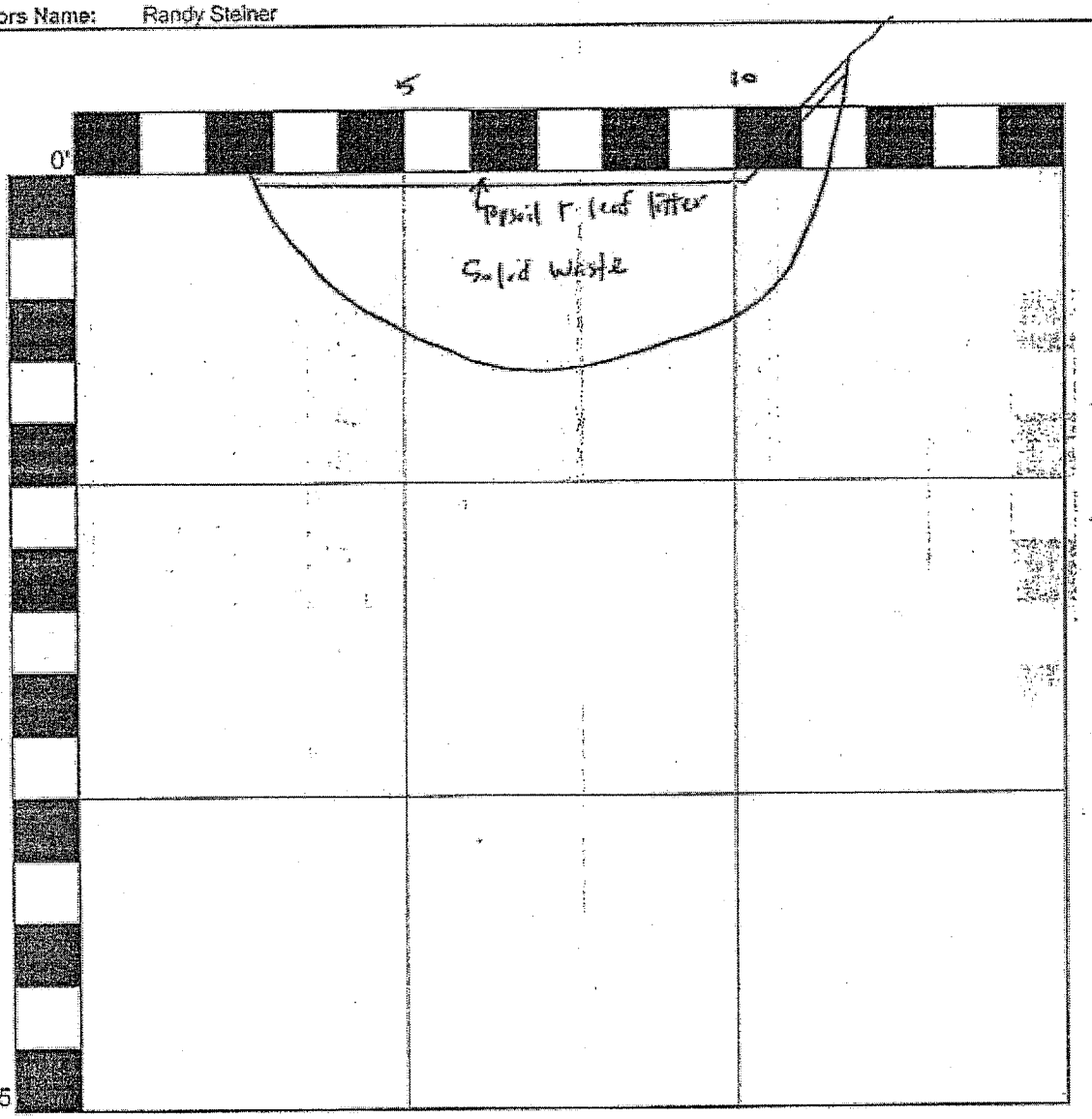
MACTEC

Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 1D

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	8/17/10		
Contractor:	SJB	Method: Backhoe	Equip. Type: Ford 555E
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 2

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 1.5' Water Level (BGS) N/A Ground Elevation: N/A

Proportions: (-) Amount (+)
- Trace (tr) 0-10%
- Little (l) 10-20%
- Some (so) 20-35%
- 35-50%

Abbreviations:
- f = fine
- m = medium
- c = coarse
- gr = gray
- bn = brown
- blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					2" grass / organic		
					10" Solid waste (soda cans, plastic bags, cardboard textile, metal containers)		
1					6" weathered bedrock		
					rock		
2							

Notes:

See Page 2 for Test Pit Sketch

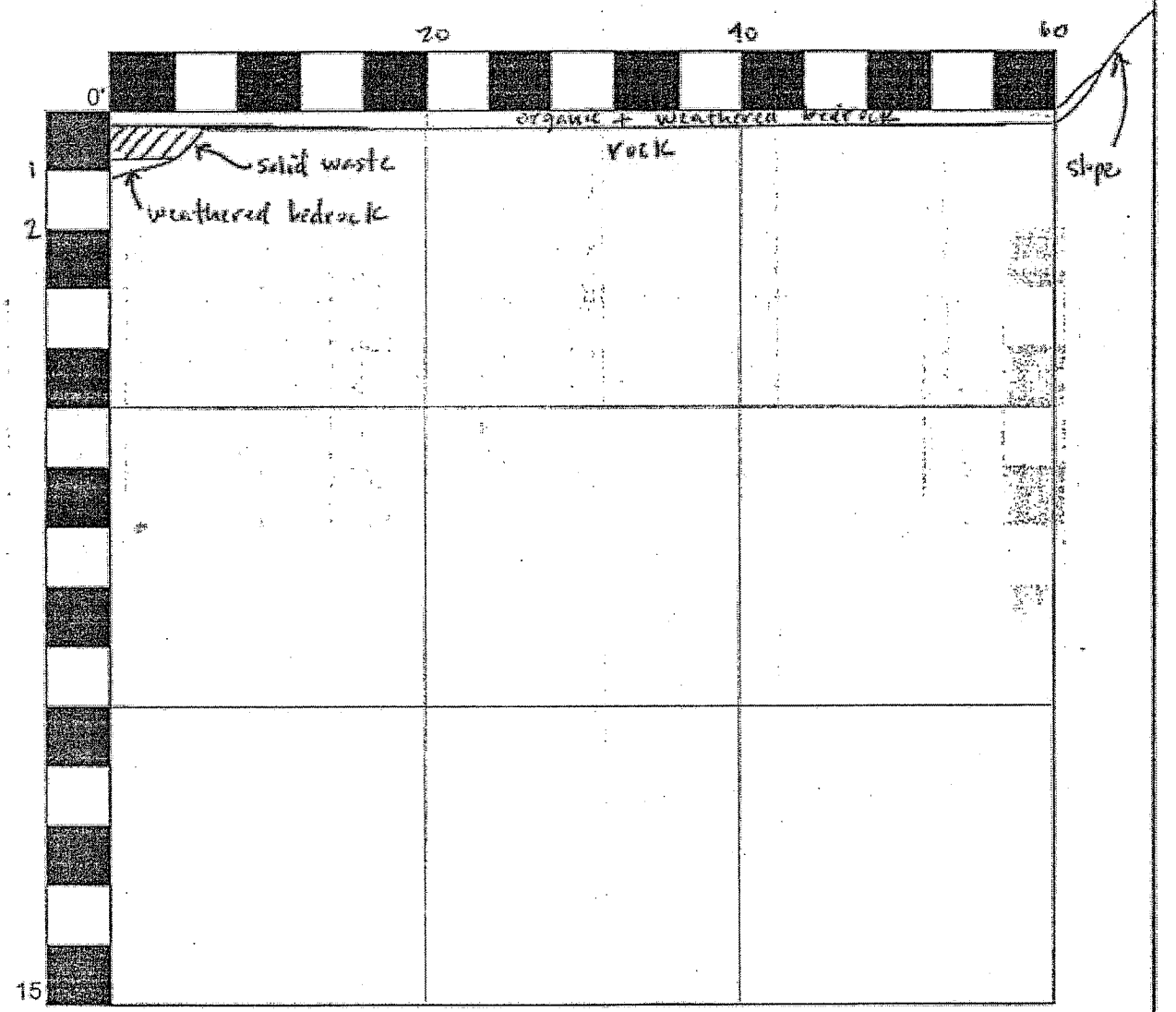
MACTEC

Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 2

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	8/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



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Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 3

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 3.5' | Water Level (BGS) N/A | Ground Elevation: N/A

Proportions: (-) Amount (+)

Proportions:	(-) Amount (+)
Trace (tr)	0-10%
Little (l)	10-20%
Some (so)	20-35%
	35-50%

Abbreviations:
f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					6-12" brown topsoil and vegetation		
1					1-2' solid waste w/ grey sandy silt and weathered bedrock		
2					3.5' bgs - rock		
3							
4							

Notes: Solid waste includes drum carcass, metal pieces, plastic, brick

See Page 2 for Test Pit Sketch

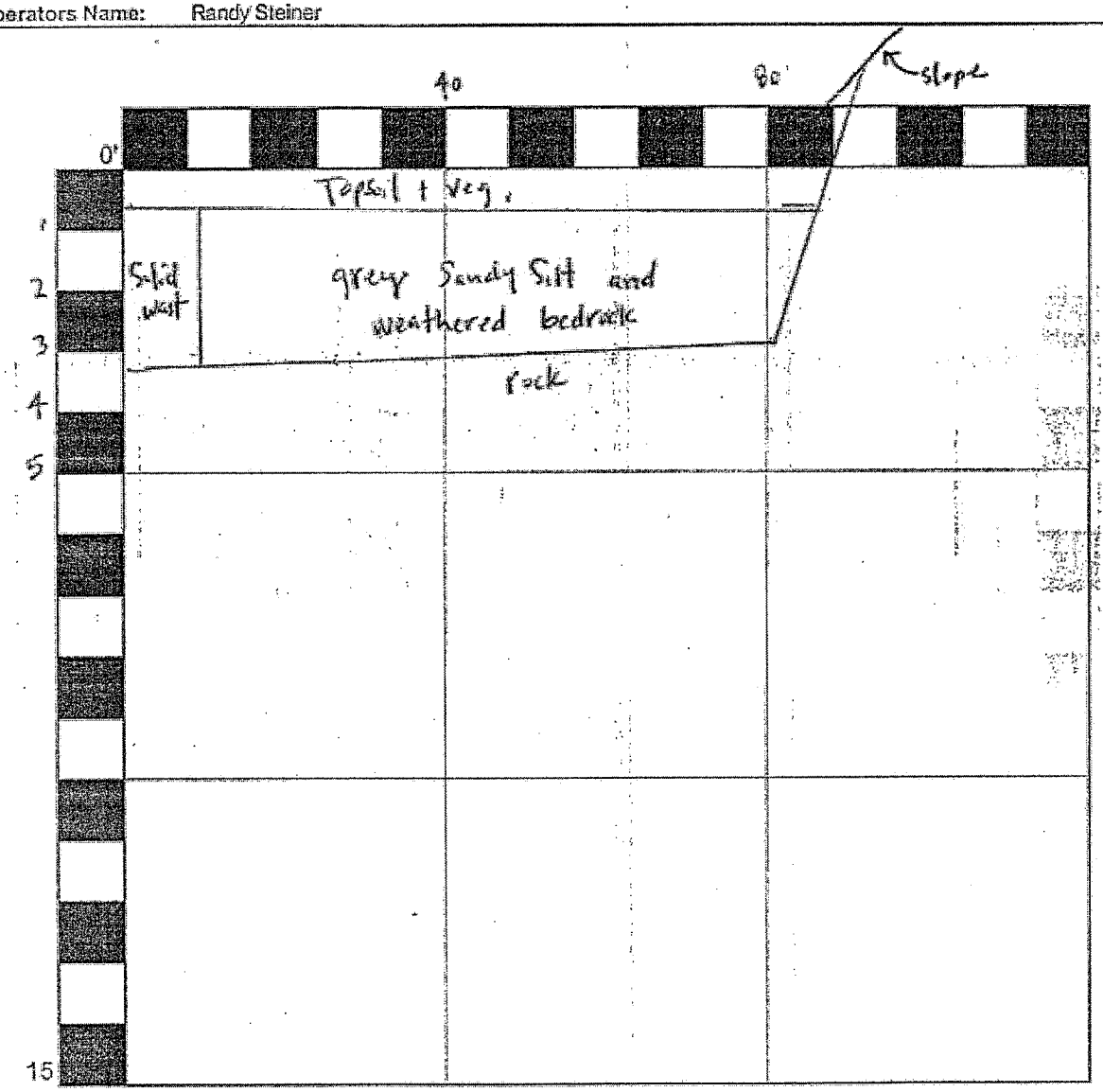
MACTEC

Created by: PJM
Checked by: JAM

Test Pit Sketch

Test Pit No. TP- 3

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	11/17/10		
Contractor:	SJB	Method: Backhoe	Equip. Type: Ford 555E
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 4

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 4'

Water Level (BGS) N/A

Ground Elevation: N/A

Proportions: (-) Amount (+)

Proportions	Amount
Trace (tr)	0-10%
Little (li)	10-20%
Some (so)	20-35%
	35-50%

Abbreviations:

f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					4" leaf litter and vegetation		
					grey sandy silt and gravel, some cobbles		
1							
2					Solid waste (4-6" thick)		
3							
4					Bottom of Test Pit @ 4' bgs		

Notes:

See Page 2 for Test Pit Sketch

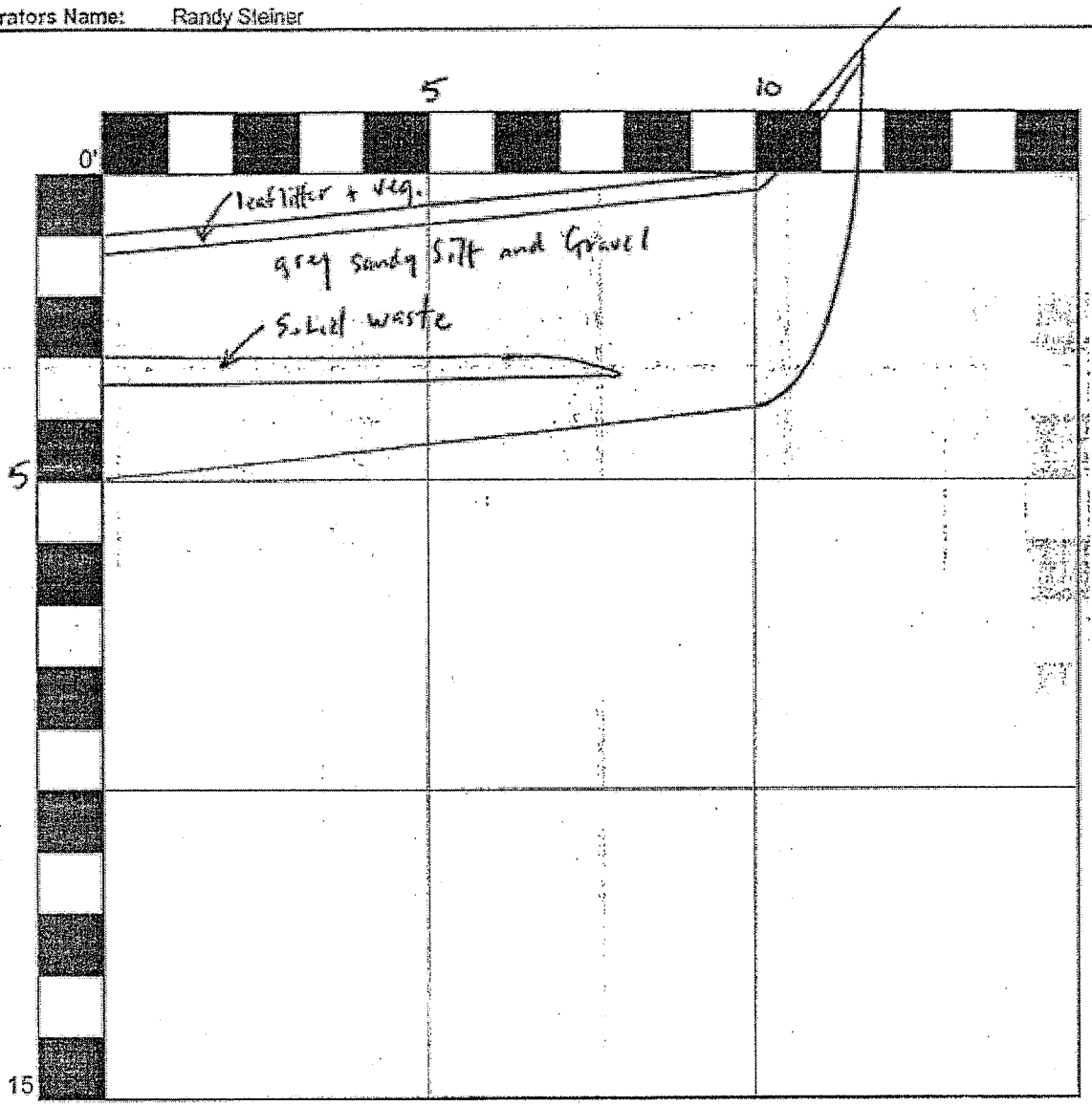
MACTEC

Created by: PJM
Checked by: JAM

Test Pit Sketch

Test Pit No. TP- 4

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	8/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



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Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 5

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 5'

Water Level (BGS) N/A

Ground Elevation: N/A

Proportions: (-) Amount (+)

Trace (tr) 0-10%
Little (l) 10-20%
Some (so) 20-35%
35-50%

Abbreviations:

f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0							
					gray sandy Silt and gravel		
1							
2							
3							
					Solid waste (glass, metal, plastic, bottles)		
4							
					dk brown Silt and f. Sand		
5					Bottom of Test Pit @ 5' bgs		

Notes:

See Page 2 for Test Pit Sketch

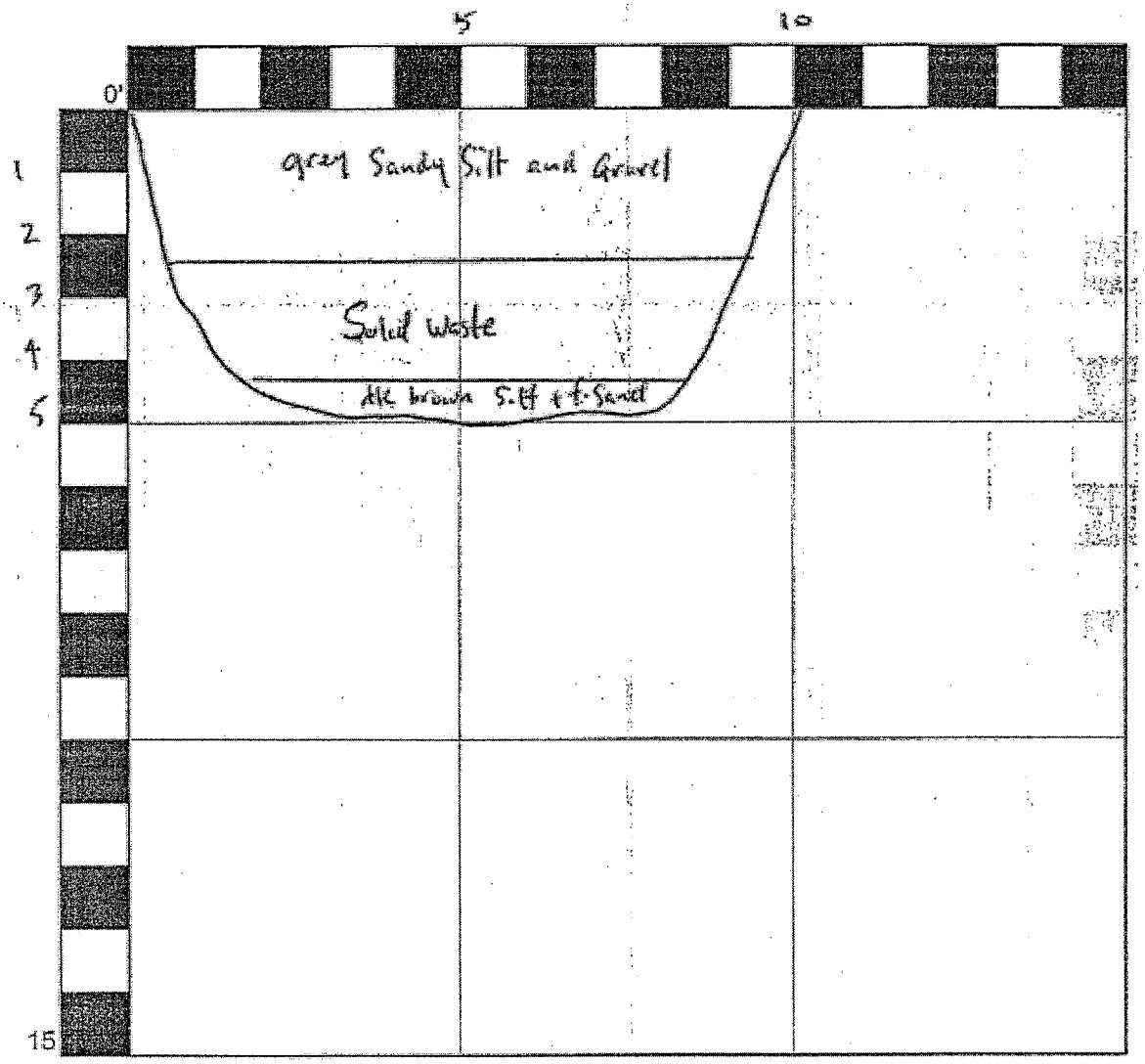
MACTEC

Created by: PJM
Checked by: JRM

Test Pit Sketch

Test Pit No. TP- 5

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	11/17/10		
Contractor:	SJB	Method: Backhoe	Equip. Type: Ford 555E
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 6

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 4.5'

Water Level (BGS) N/A

Ground Elevation: N/A

Proportions: (-) Amount (+)

Trace (tr) 0-10%
Little (l) 10-20%
Some (so) 20-35%
35-50%

Abbreviations:

f = fine
m = medium
c = coarse
gr = gray
bn = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0							
1					grey Silt, Sandy Silt and Gravel		
2							
3							
4							
5					Bottom of test pit @ 4.5' bgs		

Notes: No Solid waste uncovered

See Page 2 for Test Pit Sketch

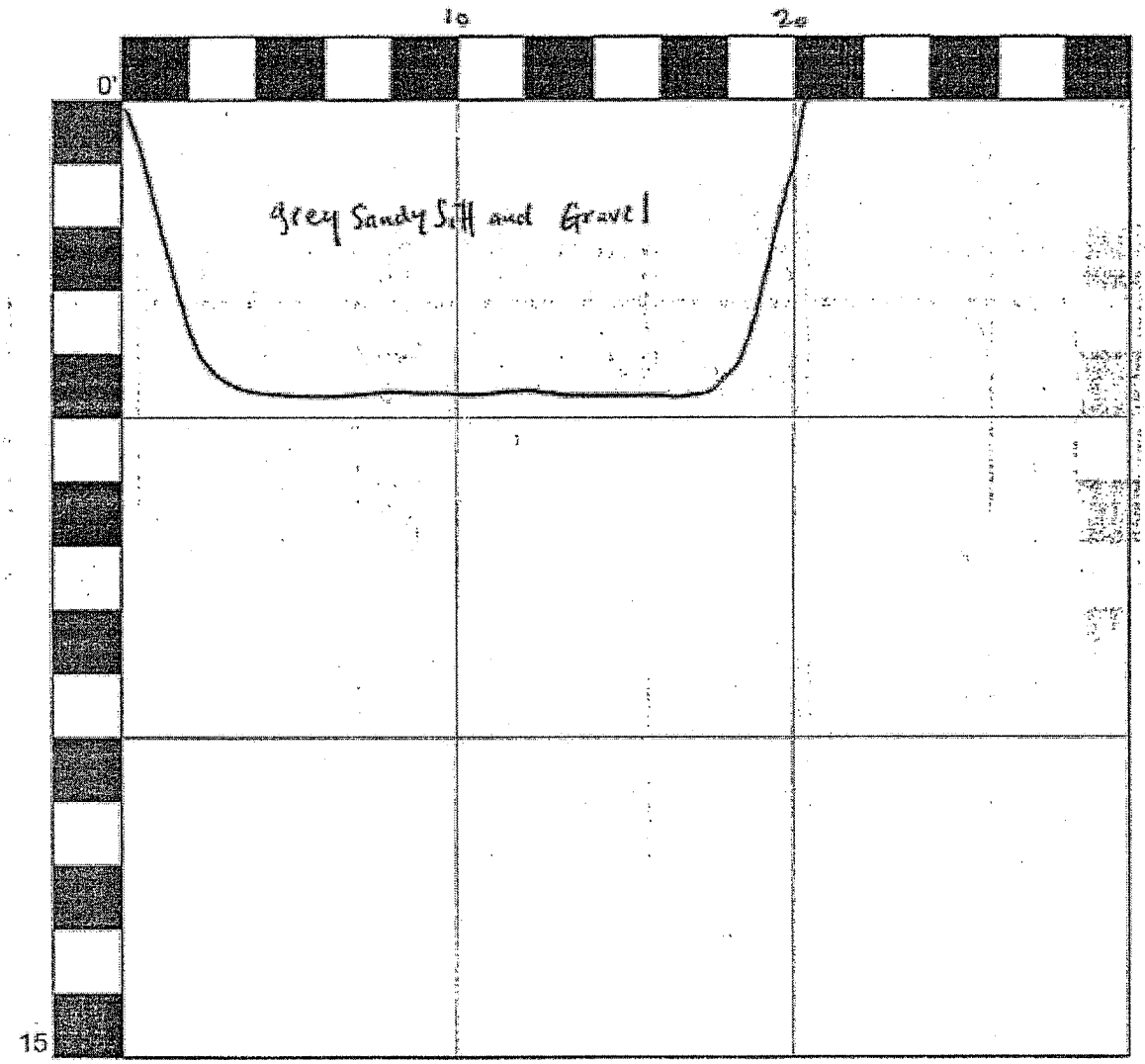
MACTEC

Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 6

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	~~8~~ 11/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: JPM

Test Pit Log

Test Pit No.: TP- 7

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 3.5' | Water Level (BGS) N/A | Ground Elevation: N/A

Proportions: Trace (tr) 0-10%; Little (l) 10-20%; Some (so) 20-35%; (-) Amount (+) 35-50%

Abbreviations: f = fine; m = medium; c = coarse; gr = gray; bn = brown; blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					organic and topsoil (dk brown)		
1					Solid waste		
2					grey Sandy Silt, Some gravel		
3							
4					Bottom of Test Pit @ ~~4.5'~~ 3.5' bgs		
					(PJM)		

Notes:

See Page 2 for Test Pit Sketch

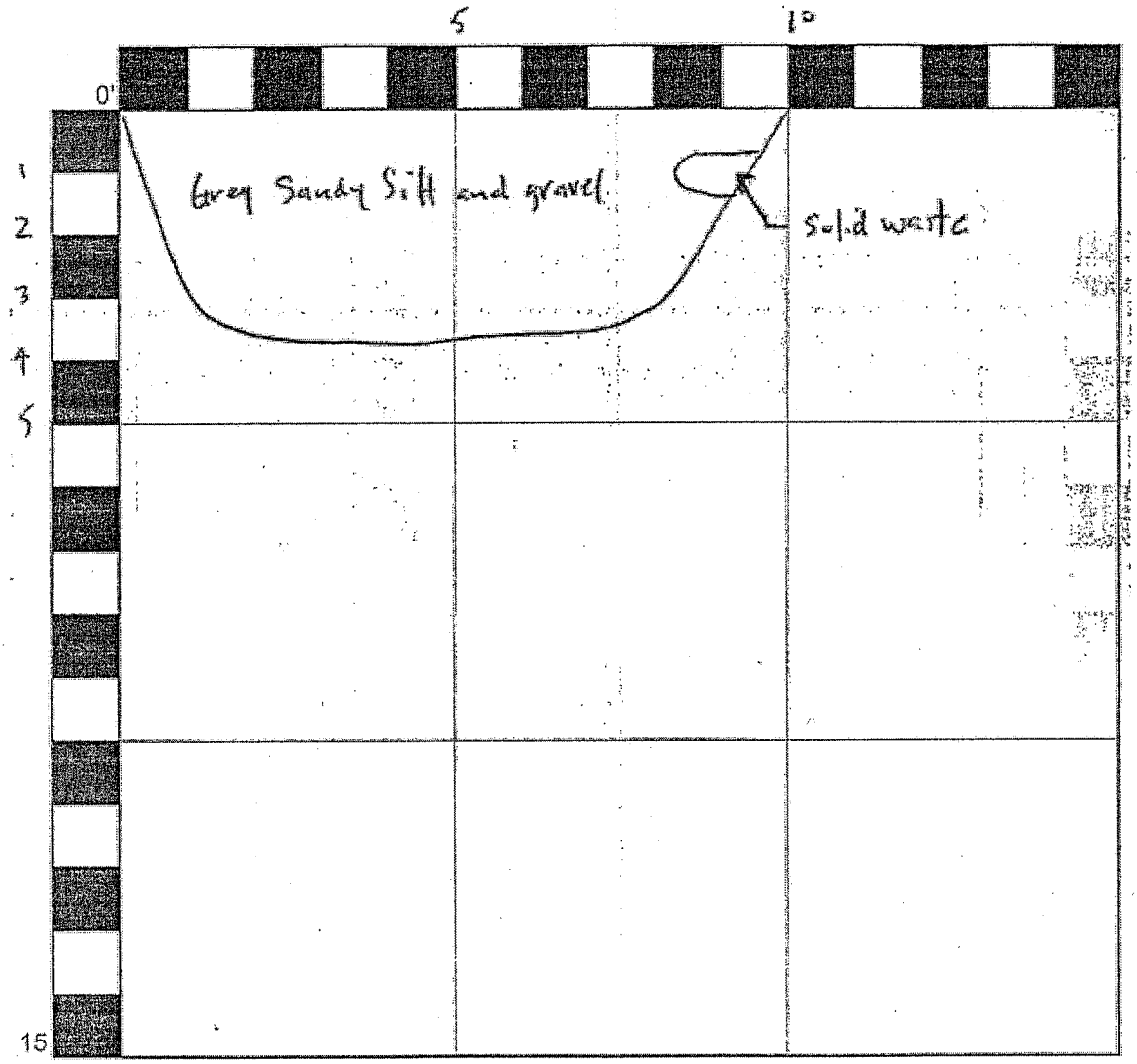
MACTEC

Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 7

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	~~8~~ 11/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



MACTEC

Created by: PJM
Checked by: PM

Test Pit Log

Test Pit No.: TP- 8

Project No.: 3612092133	Logged by: PJM
Client Name: NYSDEC	Project Name: South Hill Dump
Date: 11/17/2010	
Contractor: SJB	Method: Backhoe — Equip. Type: Ford 555E
Operators Name: Randy Steiner	

Total Depth: 6' | Water Level (BGS) N/A | Ground Elevation: N/A

Proportions: (-) Amount (+)

Trace (tr)	0-10%
Little (l)	10-20%
Some (so)	20-35%
	35-50%

Abbreviations:

f = fine
m = medium
c = coarse
gr = gray
br = brown
blk = black

Depth (feet) Below Ground Surface	Sample ID/Number	Headspace (ppm)	Water Content	Soil Class	Soil / Rock Description:	Elevation (feet)	Remarks:
0					6" grass + topsoil		
1					grey Sandy Silt and Gravel		
2							
3							
4							
5							
6					End of Test Pit @ 6' bgs		

Notes: 1 tire found in top 2' of TP; rusted soil @ 3' bgs in isolated location
No layer of solid waste uncovered.

See Page 2 for Test Pit Sketch

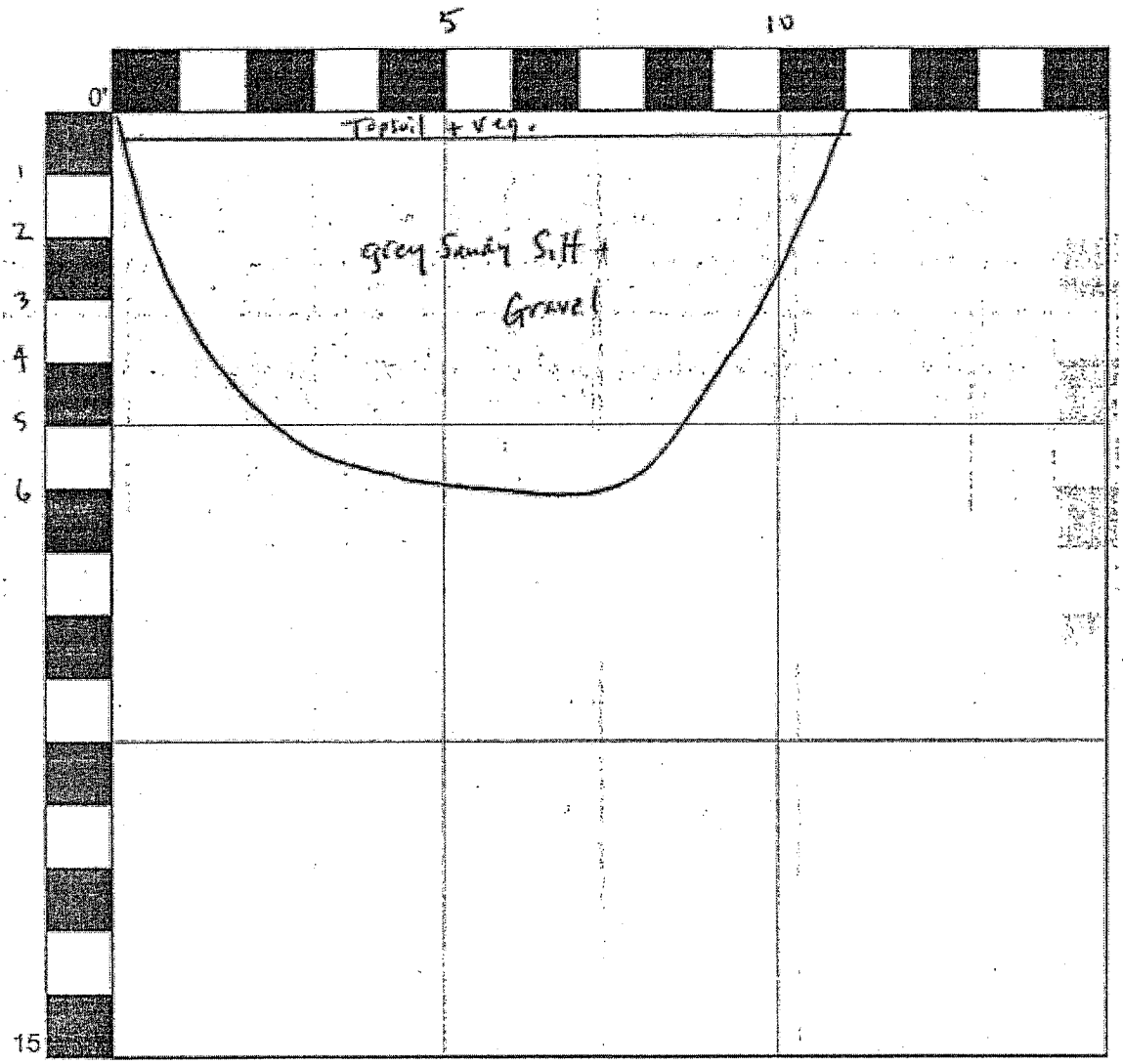
MACTEC

Created by: PJM
Checked by: JPM

Test Pit Sketch

Test Pit No. TP- 8

Project No.:	3612092133	Logged By:	PJM
Client Name:	NYSDEC	Project Name:	South Hill Dump
Date:	8 11/17/10		
Contractor:	SJB	Method:	Backhoe
Equip. Type:	Ford 555E		
Operators Name:	Randy Steiner		



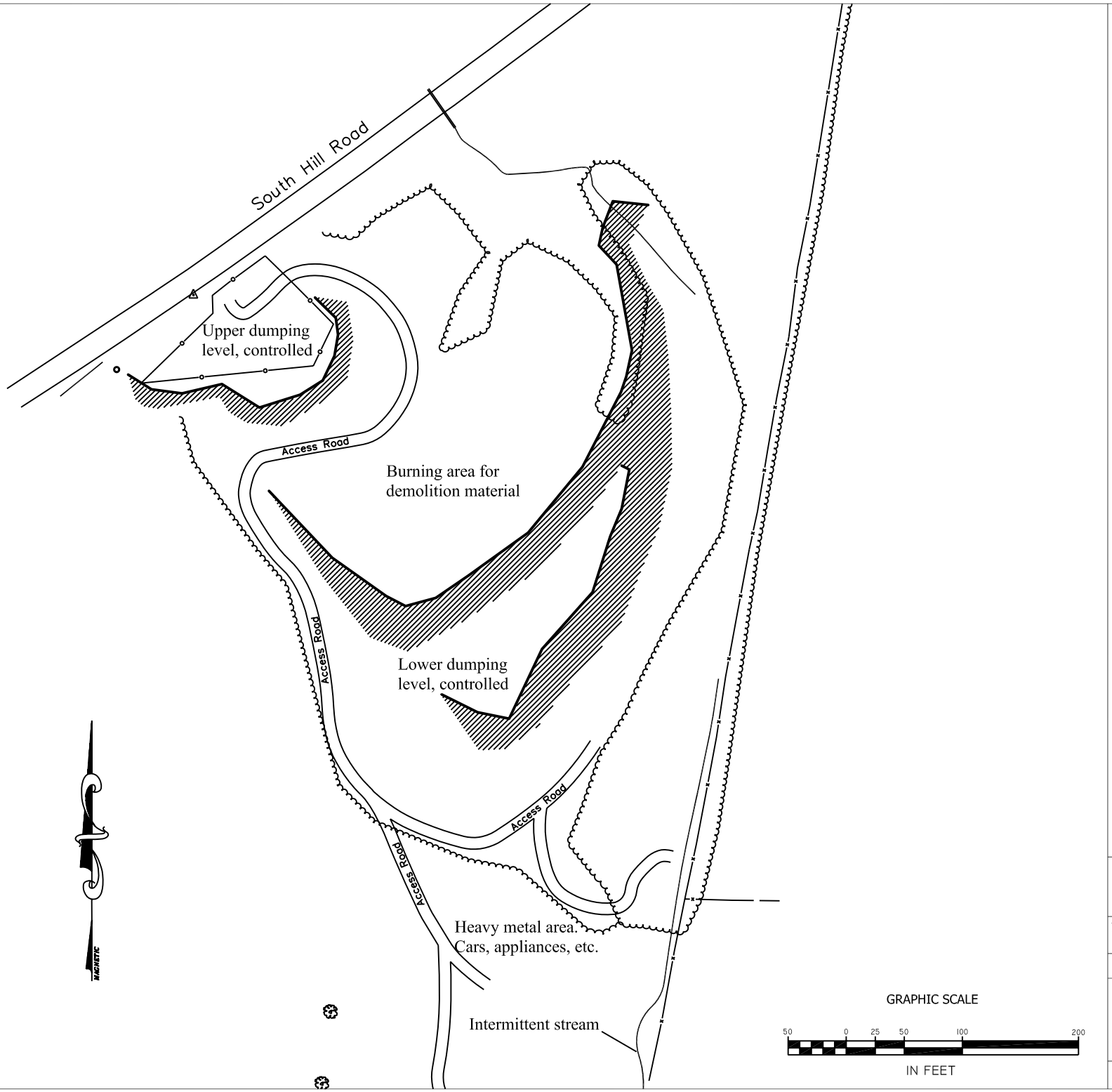
MACTEC

Created by: PJM
Checked by: JPM

FIGURES

SITE MAPS/SITE FEATURES

The enclosed figures are taken from historical South Hill Dump site investigation reports. In general, the figures depict onsite and nearby area conditions observed at various times between 2003 and 2006. The intent of each figure is to illustrate site conditions as they were known to have existed at the time the figure was generated. This information is being offered for consideration when planning the remedial work.



SOUTH HILL DUMP
CORTLANDVILLE, CORTLAND COUNTY, NEW YORK
SITE NO. 7-12-009

New York State Department of Environmental Conservation

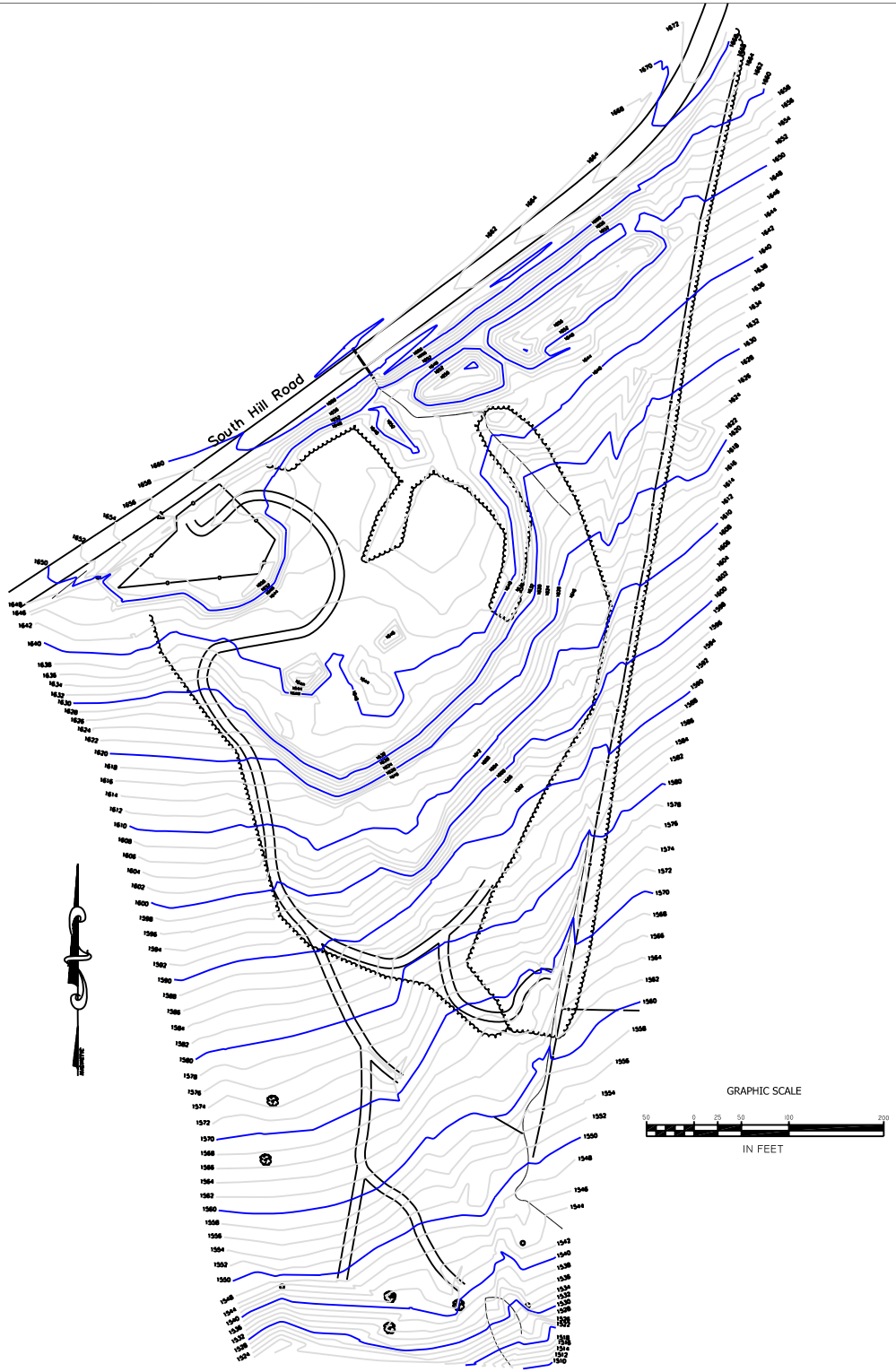
FILE:

DRAWING: DRAWN FROM SPENCER F. THEW, PE - LS BASE MAP BY:BAB

SITE MAP

DATE: 5/16/03

FIGURE 1



SOUTH HILL DUMP

CORTLANDVILLE, CORTLAND COUNTY, NEW YORK

SITE NO. 7-12-009

New York State Department of Environmental Conservation

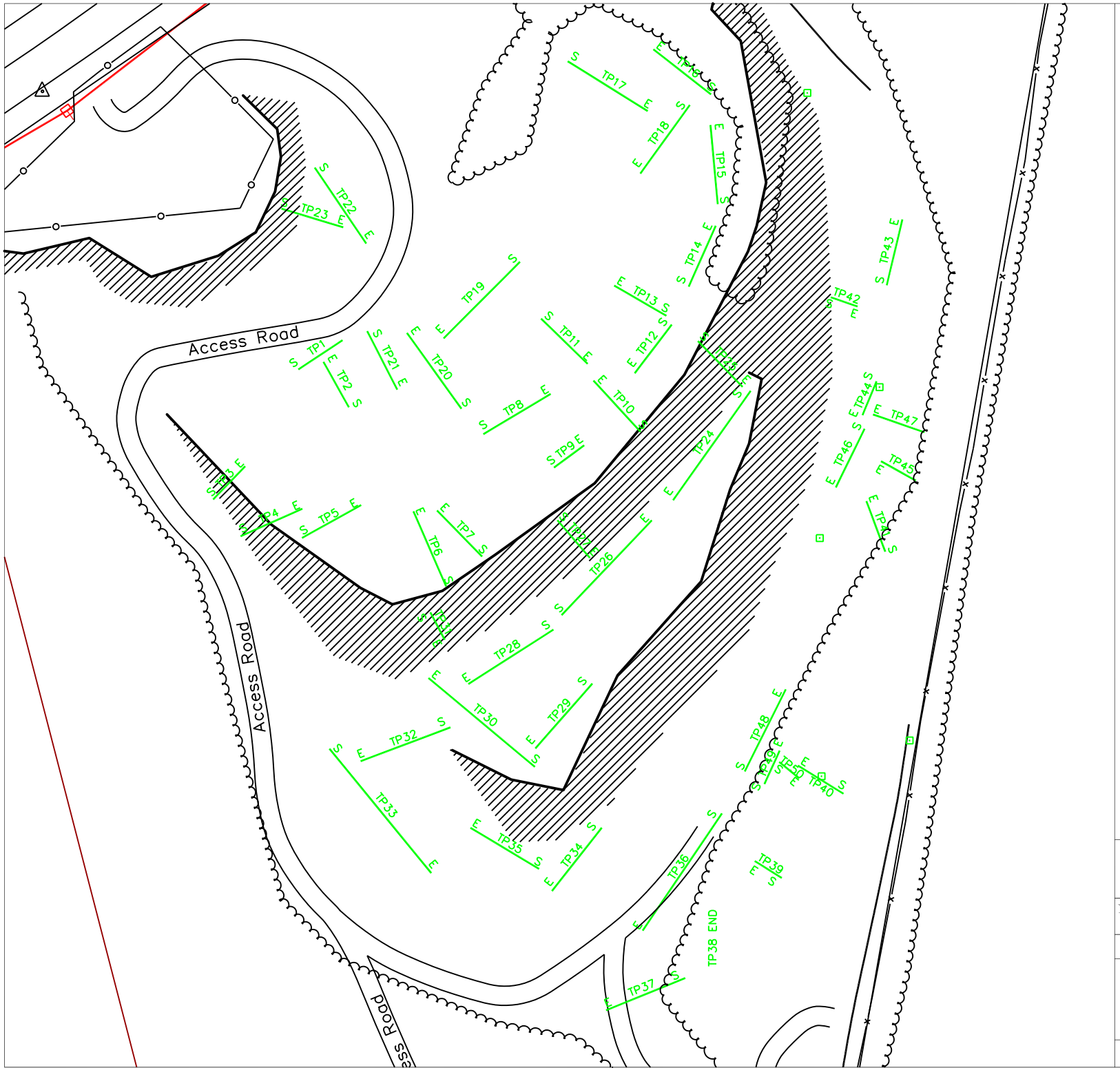
FILE:

DRAWING: DRAWN FROM SPENCER F. THEW, PE - LS BASE MAP BY:BAB

SITE SURVEY

DATE: 5/16/03

FIGURE 2



SOUTH HILL DUMP
CORTLANDVILLE, CORTLAND COUNTY, NEW YORK
SITE NO. 7-12-009

New York State Department of Environmental Conservation

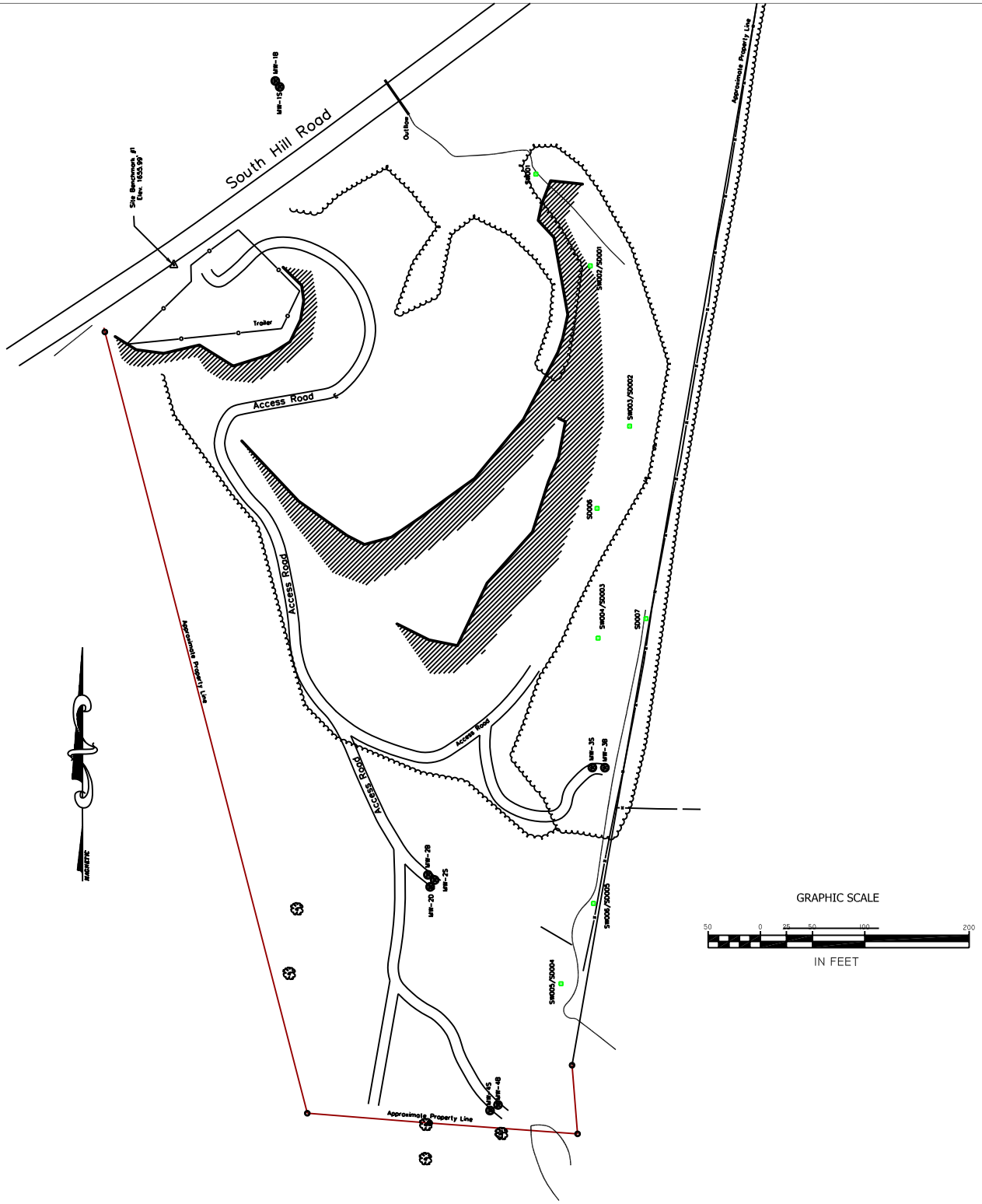
FILE:

DRAWING: DRAWN FROM SPENCER F. THEW, PE - LS BASE MAP
BY:BAB

TEST PIT LOCATIONS

DATE: 5/16/03

FIGURE 3



SOUTH HILL DUMP

CORTLANDVILLE, CORTLAND COUNTY, NEW YORK

SITE NO. 7-12-009

New York State Department of Environmental Conservation

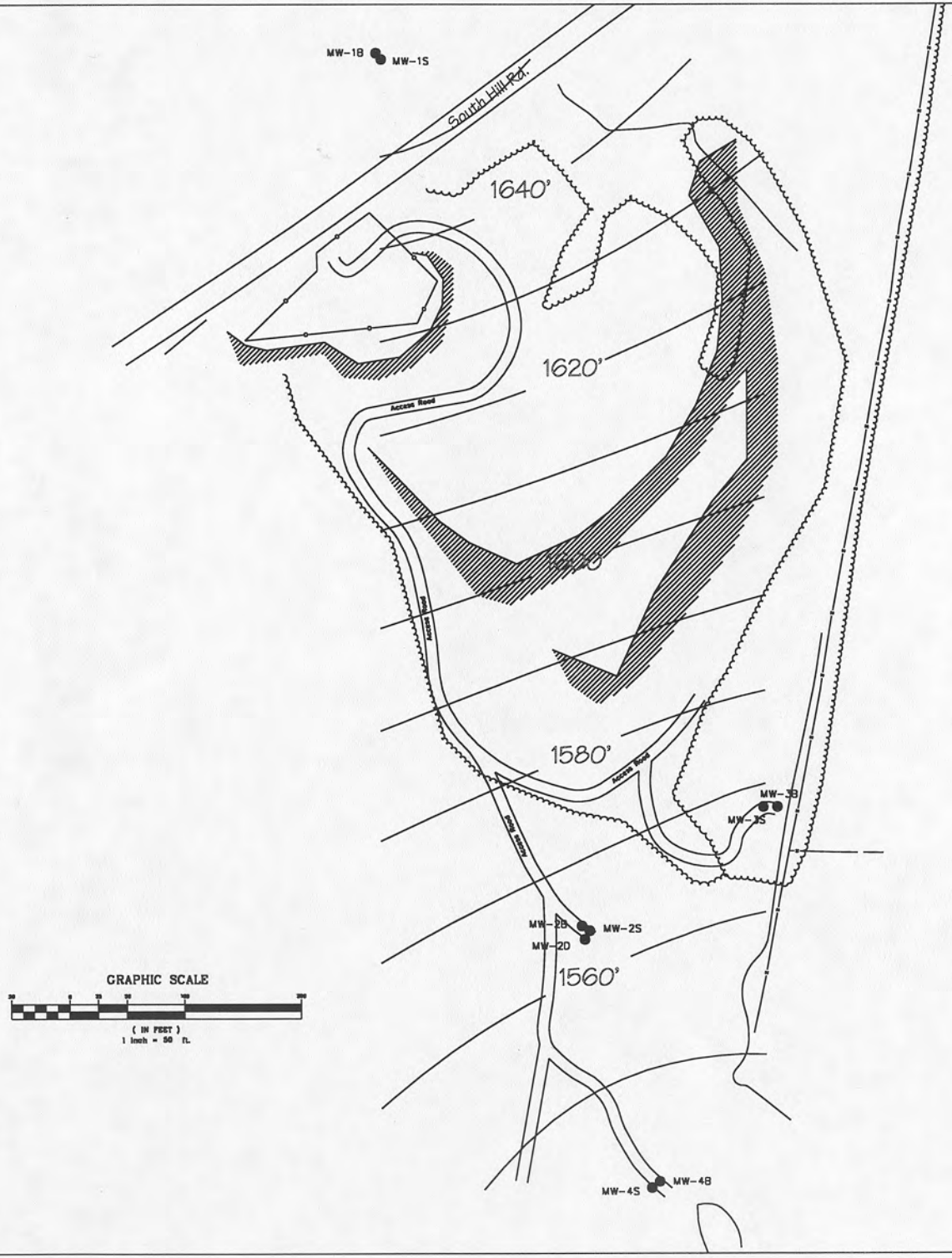
FILE:

DRAWING: DRAWN FROM SPENCER F. THEW, PE - LS BASE MAP BY:BAB

MONITORING WELLS AND SAMPLE LOCATIONS

DATE: 5/16/03

FIGURE 4



SOUTH HILL DUMP SITE

Town of Cortlandville, Cortland County, New York

Site No. 7-12-009

New York State Department of Environmental Conservation

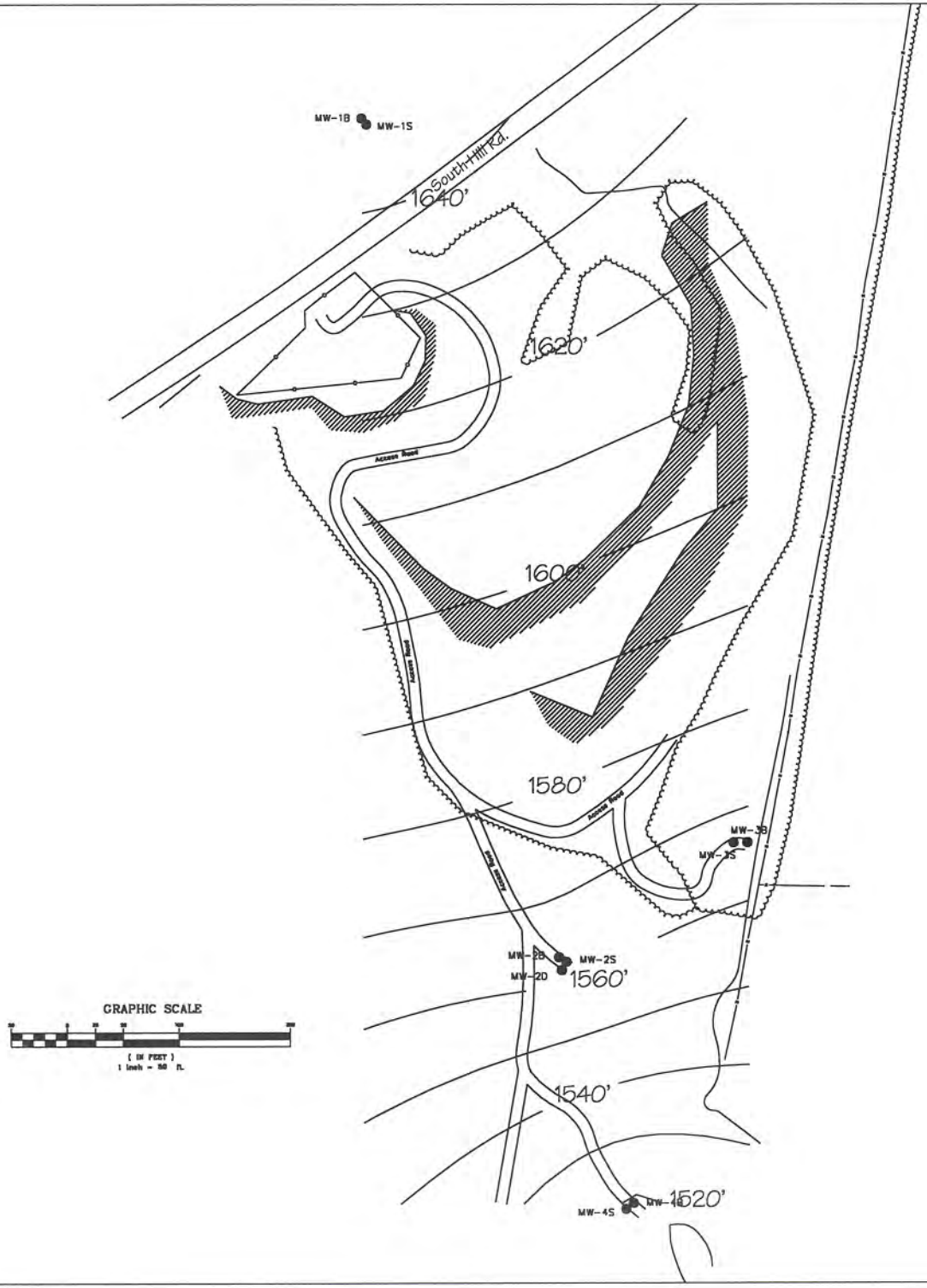
FILE: South Hill RI.DWG

DRAWING: Survey by Spencer F. Thew PE-LS. Modified by NYSDEC

SHALLOW GROUNDWATER ELEVATIONS

DATE: 12/24/97

DRAWING 5



SOUTH HILL DUMP SITE

Town of Cortlandville, Cortland County, New York

Site No. 7-12-009

New York State Department of Environmental Conservation

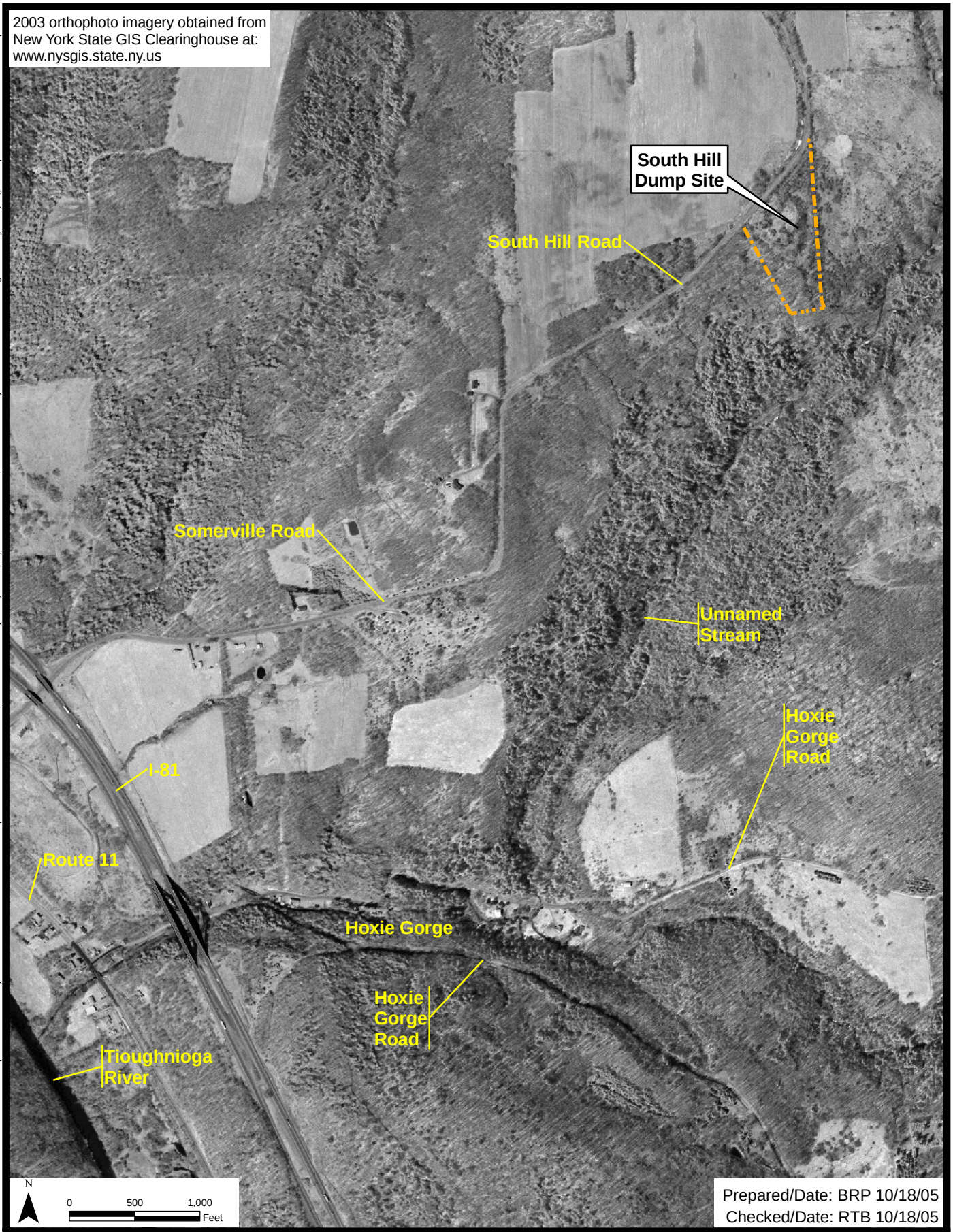
FILE: South Hill Rd.DWG

DRAWING: Survey by Spencer F. Thew PE-LS. Modified by NYSDEC

BEDROCK GROUNDWATER ELEVATIONS

DATE: 12/24/97

DRAWING 6

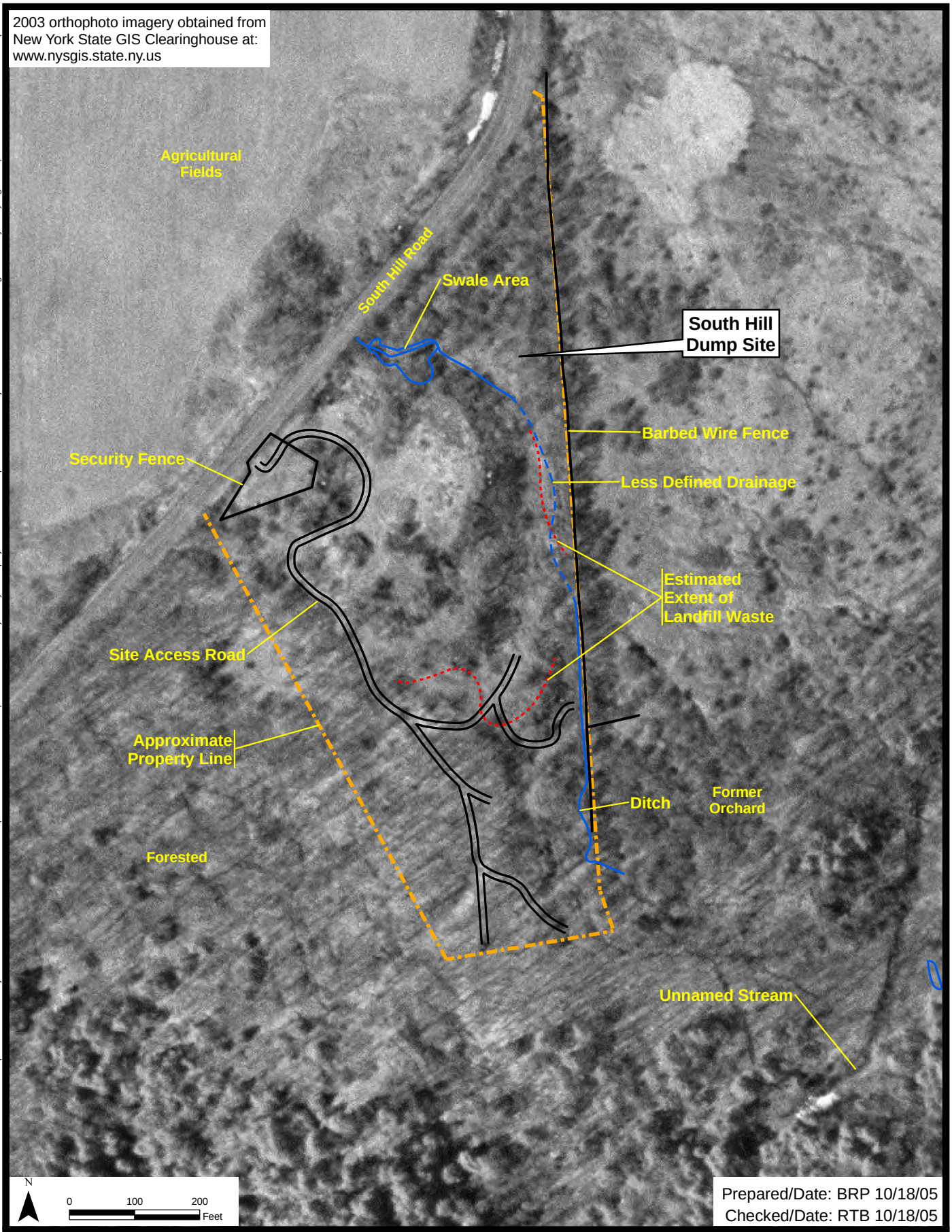


Prepared/Date: BRP 10/18/05
Checked/Date: RTB 10/18/05

NYSDEC
South Hill Dump Site
Cortland, NY

MACTEC

Site Location
Project 3612-05-2032
Figure 1.1

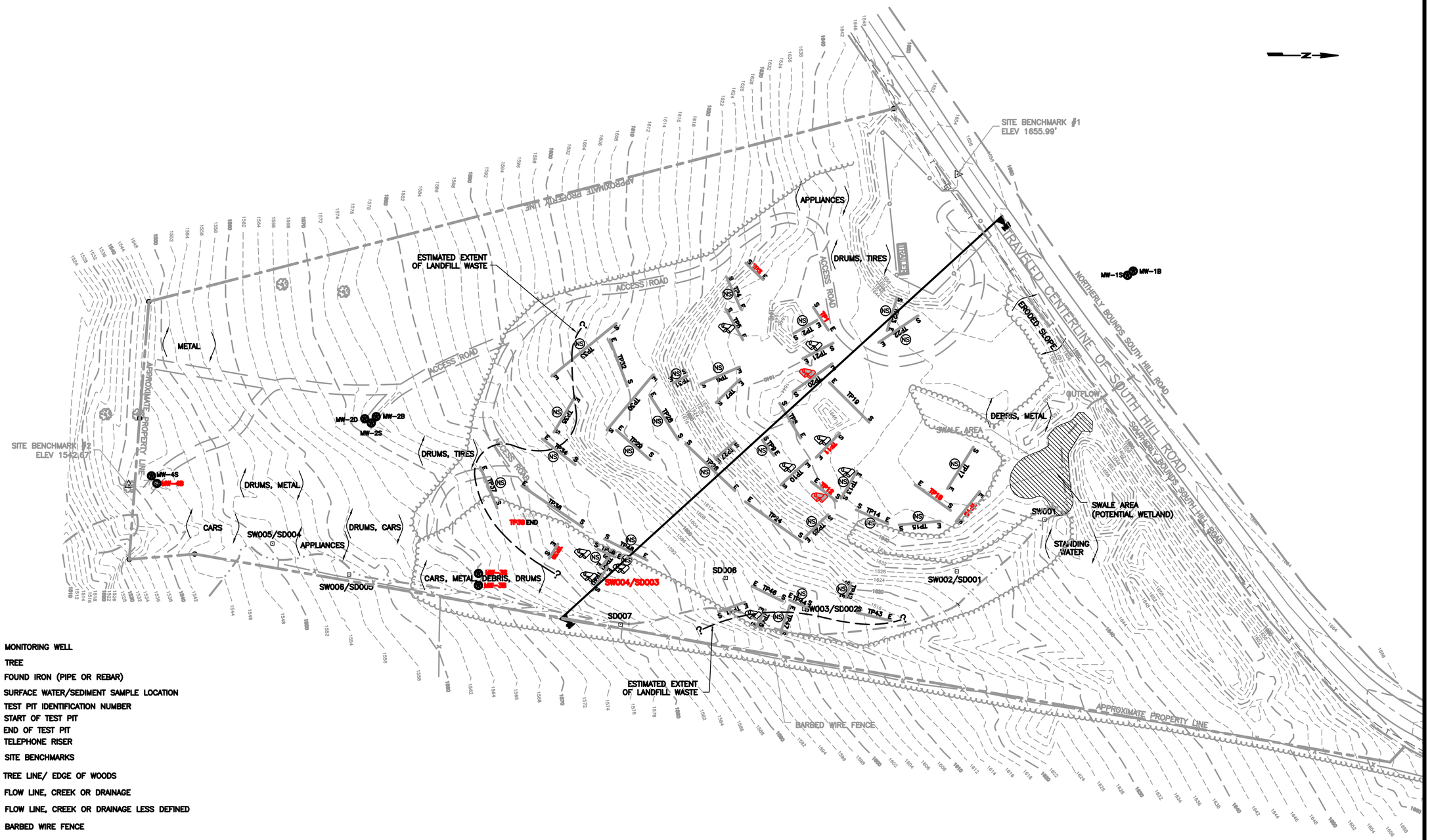


Prepared/Date: BRP 10/18/05
Checked/Date: RTB 10/18/05

NYSDEC
South Hill Dump Site
Cortland, NY

MACTEC

Site Features
Project 3612-05-2032
Figure 1.2



LEGEND

- MONITORING WELL
- TREE
- FOUND IRON (PIPE OR REBAR)
- SURFACE WATER/SEDIMENT SAMPLE LOCATION
- TP20 — TEST PIT IDENTIFICATION NUMBER
- S — START OF TEST PIT
- E — END OF TEST PIT
- TELEPHONE RISER
- SITE BENCHMARKS
- TREE LINE/ EDGE OF WOODS
- FLOW LINE, CREEK OR DRAINAGE
- FLOW LINE, CREEK OR DRAINAGE LESS DEFINED
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- UNDERGROUND TELEPHONE
- EXISTING 15" DIAMETER IRON CULVERT
- ESTIMATED EXTENT OF LANDFILL WASTE
- NS — NOT SAMPLED
- SE / NW — SECTION LINE
- POSSIBLE DRUMS REMAINING
- KNOWN DRUMS REMAINING
- DRUMS, METAL — SURFACE MATERIALS OR CONDITIONS AS OBSERVED DURING THE APRIL 28, 2005 SITE WALKOVER
- SWALE AREA (POTENTIAL WETLAND)

SAMPLE LOCATIONS IN BOLD RED (E.G. MW-4B) INDICATE ONE OR MORE SCG VALUE FOR ORGANIC CONTAMINANT IS EXCEEDED. AT LEAST ONE INORGANIC CONTAMINANT SCG VALUE WAS EXCEEDED AT ALL SAMPLE LOCATIONS PRESENTED ON THIS FIGURE. REFER TO THE DATA TABLES FOR FURTHUR INFORMATION.

SOURCE: BASE MAP FROM SPENCER F. THEW, PE-LS BASE MAP "FIGURE 1 SITE PLAN", DATED 9/20/01.

0 25 50 100
SCALE IN FEET

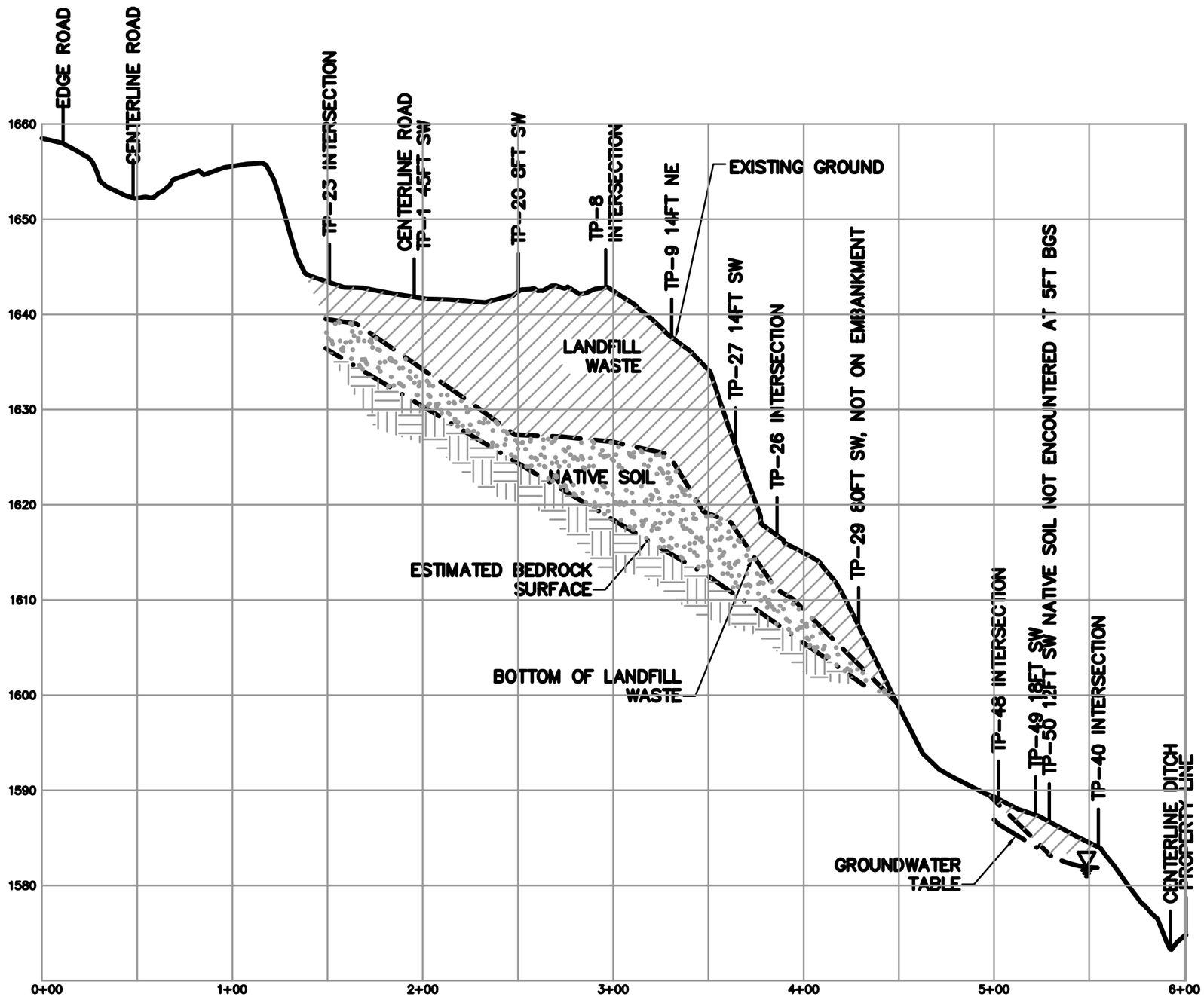
Prepared/Date: RHH 10/12/05
Checked/Date: RTB 10/14/05

South Hill Dump Site, NYSDEC Site No. 712009
County of Cortland, Courtlandville, NY

MACTEC

RI Sample Locations, Test Pit Investigation Results, and Summary of Contamination
Project 3612-05-2032
Figure 1.3

M:\Projects\yyadec1\SOUTH HILL DUMP\C-100.dwg Tue, 18 Oct 2005 - 2:29pm mmtacoy



NOTE:

CROSS-SECTION INFORMATION DERIVED FROM REMEDIAL INVESTIGATION FOR THE SOUTH HILL DUMP (NYSDEC, 2003)

LEGEND

- EXISTING GROUND
- BOTTOM OF FILL
- BEDROCK SURFACE (ESTIMATED)
- GROUNDWATER TABLE

SCALE:

VERT: 1" = 12'
HORIZ: 1" = 60'

Prepared/Date: RHH 10/12/05
Checked/Date: RTB 10/14/05

South Hill Dump Site, NYSDEC Site No. 712009
County of Cortland, Courtlandville, NY

MACTEC

Cross Section of Site

Project 3612-05-2032
Figure 1.4

M:\Projects\nysdec1\SOUTH HILL DUMP\C-500.dwg Tue, 18 Oct 2005 - 2:31pm mrstacey

TABLES

The enclosed tables are taken from historical South Hill Dump Site investigation reports. In general, the tables depict onsite and nearby area conditions observed at various times between 1997 and 2001. The intent of the tables is to depict onsite and nearby area contaminant concentrations for the following site media:

- contaminants and remediation goals
- groundwater
- surface water
- sediment
- soil

Contaminant concentrations presented on the tables are those reported at the time the table was generated. This information is being offered for consideration when planning the remedial work.

CONTAMINANTS AND REMEDIATION GOALS TABLES

Table 2.1: Contaminants of Concern

	UNITS	CHEMICAL-SPECIFIC SCG VALUES	MIN DETECT	MAX DETECT	NO OF SAMPLES	FREQUENCY OF EXCEEDANCE	BACK-GROUND
TEST PIT SOILS							
VOLATILES							
None	mg/Kg						
SEMIVOLATILES							
Benzo(a)anthracene	mg/Kg	0.224/MDL	ND	0.76	24	13%	ND
Benzo(a)pyrene	mg/Kg	0.061/MDL	ND	0.78	24	33%	ND
Chrysene	mg/Kg	0.4	ND	0.81	24	8%	ND
Phenol	mg/Kg	0.03/MDL	ND	1.4	24	13%	ND
PESTICIDES/PCBs							
None	mg/Kg						
TCLP VOLATILES							
None	mg/L						
TCLP SEMIVOLATILES							
None	mg/L						
TCLP PESTICIDES							
None	mg/L						
TCLP HERBICIDES							
None	mg/L						
INORGANICS							
Aluminum	mg/Kg	SB	6610	32900	24	21%	16200
Antimony	mg/Kg	SB	1.7	24	24	100%	1.6
Arsenic	mg/Kg	7.5 or SB	4.8	40.7	24	50%	7.9
Barium	mg/Kg	300 or SB	45.6	904	24	13%	89.8
Beryllium	mg/Kg	0.16 or SB	ND	0.7	24	8%	0.6
Cadmium	mg/Kg	1 or SB	ND	49.8	24	63%	N/A
Calcium	mg/Kg	SB	688	61900	24	75%	1135
Chromium	mg/Kg	10 or SB	11.8	435	24	71%	21.85
Cobalt	mg/Kg	30 or SB	6	34.2	24	8%	15.75
Copper	mg/Kg	25 or SB	11.8	1820	24	63%	19.1
Iron	mg/Kg	2000 or SB	17100	569000	24	54%	33550
Lead	mg/Kg	SB	7.5	2910	24	75%	14.3
Magnesium	mg/Kg	SB	1650	9510	24	21%	6085
Manganese	mg/Kg	SB	304	3490	24	29%	918
Mercury	mg/Kg	0.1	ND	0.79	24	46%	ND
Nickel	mg/Kg	13 or SB	15.3	249	24	50%	34.5
Potassium	mg/Kg	SB	519	4950	24	63%	1270
Sodium	mg/Kg	SB	185	2440	24	100%	167
Thallium	mg/Kg	SB	ND	2.1	24	17%	ND
Zinc	mg/Kg	20 or SB	50.7	4130	24	88%	69.25
Total Cyanide	mg/Kg	(see Note 1)	ND	3.01	24	17%	ND
TCLP METALS							
None	mg/L						
SURFACE WATER							
VOLATILES							
1,2-Dichloroethene (total)	µg/L	5	ND	180	6	17%	NA
Trichloroethene	µg/L	40	ND	530	6	17%	NA
Vinyl Chloride	µg/L	2	ND	2	6	17%	NA
SEMIVOLATILES							
bis(2-Ethylhexyl)phthalate	µg/L	0.6	ND	18	6	83%	NA
PESTICIDES/PCBs							
None	µg/L						
INORGANICS							

Table 2.1: Contaminants of Concern

	UNITS	CHEMICAL-SPECIFIC SCG VALUES	MIN DETECT	MAX DETECT	NO OF SAMPLES	FREQUENCY OF EXCEEDANCE	BACK-GROUND
Aluminum	µg/L	100	137	283000	6	100%	NA
Antimony	µg/L	6	ND	105	6	33%	NA
Barium	µg/L	2000	19.9	4830	6	33%	NA
Beryllium	µg/L	11, 1100*	ND	12.6	6		NA
Cadmium	µg/L	(see Note 2)	ND	16.2	6		NA
Chromium	µg/L	(see Note 2)	ND	457	6		NA
Cobalt	µg/L	5	ND	237	6	83%	NA
Copper	µg/L	(see Note 2)	2.9	595	6		NA
Iron	µg/L	300	105	2420000	6	83%	NA
Lead	µg/L	(see Note 2)	ND	2970	6		NA
Magnesium	µg/L	35,000	3710	102000	6	33%	NA
Manganese	µg/L	600	4.9	11000	6	83%	NA
Mercury	µg/L	0.0007	ND	2.8	6	83%	NA
Nickel	µg/L	(see Note 2)	ND	819	6		NA
Silver	µg/L	0.1**	ND	11	6	33%	NA
Sodium	µg/L	(see Note 2)	8690	26700	6		NA
Vanadium	µg/L	14	ND	405	6	83%	NA
Zinc	µg/L	(see Note 2)	9.4	14500	6		NA
Total Cyanide	µg/L	5.2***	ND	32	6	17%	NA
SEDIMENT (see Note 3)							
VOLATILES							
None	mg/Kg						
SEMIVOLATILES							
None	mg/Kg						
PESTICIDES/PCBs							
4,4'-DDT	mg/Kg	0.1	ND	0.2	7	14%	NA
INORGANICS							
Antimony	mg/Kg	2	ND	8.4	7	43%	NA
Arsenic	mg/Kg	6	ND	7.3	7	43%	NA
Cadmium	mg/Kg	0.6	ND	8.3	7	43%	NA
Chromium	mg/Kg	26	15.4	97.7	7	29%	NA
Copper	mg/Kg	16	13.6	60.5	7	71%	NA
Iron	mg/Kg	20,000	26100	167000	7	100%	NA
Lead	mg/Kg	31	15.5	334	7	57%	NA
Manganese	mg/Kg	460	521	1970	7	100%	NA
Nickel	mg/Kg	16	27.7	91.5	7	100%	NA
Silver	mg/Kg	1	ND	2.4	7	14%	NA
Zinc	mg/Kg	120	170	1240	7	100%	NA
TCLP METALS							
None	mg/L						
SOIL BORINGS (see Note 4)							
VOLATILES							
None	mg/Kg						
SEMIVOLATILES							
None	mg/Kg						
PESTICIDES/PCBs							
None	mg/Kg						
INORGANICS							
Aluminum	mg/Kg	SB	11800	17900	6	17%	16200
Antimony	mg/Kg	SB	0.55	2	6	67%	1.6
Arsenic	mg/Kg	7.5 or SB	6.6	10.6	6	50%	7.9

Table 2.1: Contaminants of Concern

	UNITS	CHEMICAL-SPECIFIC SCG VALUES	MIN DETECT	MAX DETECT	NO OF SAMPLES	FREQUENCY OF EXCEEDANCE	BACK-GROUND
Beryllium	mg/Kg	0.16 or SB	0.46	0.73	6	17%	0.6
Calcium	mg/Kg	SB	782	50300	6	83%	1135
Chromium	mg/Kg	10 or SB	15.8	24.1	6	17%	21.85
Iron	mg/Kg	2000 or SB	25300	40000	6	17%	33550
Lead	mg/Kg	SB	5.7	22.9	6	33%	14.3
Magnesium	mg/Kg	SB	4130	9070	6	50%	6085
Nickel	mg/Kg	13 or SB	25.4	37.6	6	17%	34.5
Potassium	mg/Kg	SB	1140	2220	6	83%	1270
Sodium	mg/Kg	SB	ND	298	6	33%	167
Thallium	mg/Kg	SB	ND	0.97	6	33%	ND
Zinc	mg/Kg	20 or SB	57.6	87.2	6	50%	69.25
Total Cyanide	mg/Kg	****	ND	2.23	6	17%	ND
GROUNDWATER (see Note 5)							
VOLATILES							
1,2-Dichloroethene (total)	µg/L	5	ND	56	7	29%	ND
Trichloroethene	µg/L	5	ND	540	7	29%	ND
SEMIVOLATILES							
None	µg/L						
PESTICIDES/PCBs							
None	µg/L						
METALS							
Aluminum	µg/L	2000	463	4490	6	67%	12850
Iron	µg/L	300	811	47600	6	133%	23150
Manganese	µg/L	300	25	622	6	50%	767
Sodium	µg/L	20000	1900	23600	6	33%	3880

Prepared/Date: RTB 10/20/2005
Checked/Date: MJS 10/20/2005

Notes:
1. Site-specific forms of cyanide should be evaluated in determining soil cleanup objective
2. Standard or guidance values for inorganics in surface water are dependent upon hardness. Refer to Table B.4 for more inf
3. Sediment Screening Values presented for organic contaminants in sediment calculated for organic content of 1%, and should be adjusted according to site-specific values.
4. Min and max detected values, number of samples, and frequency of detection do not include monitoring well data for back wells MW-1S and MW-1B
5. Min and max detected values, number of samples, and frequency of detection do not include data for samples MW1B and
*standard for beryllium is 11 ug/L for hardness less than or equal to 75 mg/L, 1100 ug/L for greater than 75 mg/L
**applies to ionic silver
***cyanide criteria for free cyanide, the sum of HCN and CN- expressed as CN.
****site-specific forms of cyanide should be evaluated in determining cleanup objective
MDL = method detection limit
µg/L = micrograms per liter
mg/kg = milligrams per kilogram
ND = non detect

Table 3.1: Remediation Goals

	UNITS	MAX DETECT	REMEDIATION GOAL
SURFACE SOIL			
No Data Available			
SOIL			
Chrysene	mg/Kg	0.81	0.4
Phenol	mg/Kg	1.4	0.03/MDL
SURFACE WATER			
Mercury	µg/L	2.8	0.0026
SEDIMENT (see Note 1)			
4,4'-DDT	mg/Kg	0.2	0.1
Antimony	mg/Kg	8.4	2
Arsenic	mg/Kg	7.3	6
Cadmium	mg/Kg	8.3	0.6
Chromium	mg/Kg	97.7	26
Copper	mg/Kg	60.5	16
Iron	mg/Kg	167000	20,000
Lead	mg/Kg	334	31
Manganese	mg/Kg	1970	460
Nickel	mg/Kg	91.5	16
Silver	mg/Kg	2.4	1
Zinc	mg/Kg	1240	120
GROUNDWATER			
None			

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Notes:
1. Sediment Screening Values presented for organic contaminants in sediment calculated for organic content of one percent, and should be adjusted according to site-specific values.
MDL = method detection limit
µg/L = micrograms per liter
mg/kg = milligrams per kilogram

Table 3.2: Contamination Requiring Remediation

LOCATION	DEPTH (FT) (see Note 1)	MATRIX	UNITS	COMPOUND (see Note 2)	CONCENTRATION (see Note 4)	REMEDIATION GOAL
TP-1	5	Soil	mg/Kg	chrysene	0.81	0.4
TP-11	12	Soil	mg/Kg	phenol	0.45	0.03/MDL
TP-18	8	Soil	mg/Kg	phenol	1.4	0.03/MDL
TP-38	2	Soil	mg/Kg	phenol	0.25	0.03/MDL
TP-39	1	Soil	mg/Kg	chrysene	0.58	0.4
SW002	NA	Surface water	µg/L	mercury	2.8	0.0026
SW003	NA	Surface water	µg/L	mercury	0.9	0.0026
SW004	NA	Surface water	µg/L	mercury	1	0.0026
SW005	NA	Surface water	µg/L	mercury	0.08	0.0026
SW006	NA	Surface water	µg/L	mercury	0.07	0.0026
SD001	NA	Sediment	mg/Kg	inorganics	-	-
SD002	NA	Sediment	mg/Kg	inorganics	-	-
SD003	NA	Sediment	mg/Kg	4,4'-DDT	0.2	0.1
SD003	NA	Sediment	mg/Kg	inorganics	-	-
SD004	NA	Sediment	mg/Kg	inorganics	-	-
SD005	NA	Sediment	mg/Kg	inorganics	-	-
SD006	NA	Sediment	mg/Kg	inorganics	-	-
SD007	NA	Sediment	mg/Kg	inorganics	-	-

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Notes:
1. MW-2B, MW-3B, and MW-4B are bedrock wells consisting of sealed open bore hole, no screen. Depth listed is top of bedrock. Refer to Monitoring Well Construction Logs in Appendix C of the RI.
water SCG) values.
2. refer to Table B.5 for specific inorganic contaminants above RG (equivalent to sediment SCG) values.
B2EHP = bis(2-ethylhexyl)phthalate

GROUNDWATER DATA TABLES

TABLE 5

GROUNDWATER ANALYTICAL DATA SUMMARY

GROUNDWATER SAMPLES - 1997

SOUTH HILL DUMP SITE VALIDATED GROUNDWATER SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	GROUNDWATER STANDARD TOGS 1.1.1	MW002B 3134509 NYTEST SHD8 WATER 5/22/97 7/25/97	MW003S 3134510 NYTEST SHD8 WATER 5/22/97 7/25/97	MW003B 3134511 NYTEST SHD8 WATER 5/22/97 7/25/97	MW004S 3134506 NYTEST SHD8 WATER 5/22/97 7/25/97	MW004B 3134507 NYTEST SHD8 WATER 5/22/97 7/25/97
COMPOUND	UNITS:						
VOLATILES							
1,2-Dichloroethene (total)	ug/L	5	-	**18**	**56**	-	-
Trichloroethene	ug/L	5	4 J	**80**	**540**	-	4 J
SEMIVOLATILES							
4-Chloroaniline	ug/L	5	R	R	R	R	R
bis(2-Ethylhexyl)phthalate	ug/L	50	-	2 J	1 J	2 J	2 J
PESTICIDES/PCBs							
NONE			-	-	-	-	-
METALS							
Aluminum	ug/L	100	**4270** J	**948** J	**936** J	**463** J	**1180** J
Arsenic	ug/L	25	5.5 J	-	-	-	-
Barium	ug/L	1000	135 J	48.3 J	121 J	27 J	86.8 J
Beryllium	ug/L	3(G)	-	-	-	-	-
Cadmium	ug/L	10	-	-	-	-	2.6 J
Calcium	ug/L		43900 J	57800 J	75200 J	22200 J	39200 J
Chromium	ug/L	50	27.6	-	-	-	-
Cobalt	ug/L	5	**7.1** J	-	-	-	-
Copper	ug/L	200	43.4	3 J	3.9 J	2.3 J	4.8 J
Iron	ug/L	300	**47600**	**2000**	**3850**	**811**	**3160**
Lead	ug/L	25	12.6 J	-	-	-	1.8 J
Magnesium	ug/L	35000(G)	8690	13700	14900	3450 J	8630
Manganese	ug/L	300	**622** J	46.8 J	231 J	25 J	46.3 J
Mercury	ug/L	2	-	-	-	-	-
Nickel	ug/L		45	-	6.4 J	-	4.5 J
Potassium	ug/L		-	9140	1980 J	-	-
Sodium	ug/L	20000	3230 J	**20900**	**23600**	1900 J	3690 J
Vanadium	ug/L	14	6.2 J	-	-	-	-
Zinc	ug/L	300	40.2 J	34.3 J	23.9 J	62.6 J	19.9 J

SOUTH HILL DUMP SITE VALIDATED GROUNDWATER SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	GROUNDWATER STANDARD TOGS 1.1.1	MW001S 3134501 NYTEST SHD8 WATER 5/22/97 7/25/97	MW001B 3134502 NYTEST SHD8 WATER 5/22/97 7/25/97	DUP of MW001B MW005 3134505 NYTEST SHD8 WATER 5/22/97 7/25/97	MW002S 3134518 NYTEST SHD8 WATER 5/22/97 7/25/97	MW002D 3134508 NYTEST SHD8 WATER 5/22/97 7/25/97
COMPOUND	UNITS:						
VOLATILES							
1,2-Dichloroethene (total)	ug/L	5	-	-	-	-	-
Trichloroethene	ug/L	5	-	-	-	-	-
SEMIVOLATILES							
4-Chloroaniline	ug/L	5	-	-	-		R
bis(2-Ethylhexyl)phthalate	ug/L	50	3 J	2 J	2 J		1 J
PESTICIDES/PCBs							
NONE			-	-	-		-
METALS							
Aluminum	ug/L	100	**11500** J	**11400** J	**14200** J		**4490** J
Arsenic	ug/L	25	-	7.1 J	11.4		-
Barium	ug/L	1000	97.6 J	132 J	151 J		70.7 J
Beryllium	ug/L	3(G)	0.32 J	0.33 J	0.39 J		-
Cadmium	ug/L	10	-	-	-		-
Calcium	ug/L		20700 J	22900 J	23600 J		46300 J
Chromium	ug/L	50	19.2	24.7	22.7		7.6 J
Cobalt	ug/L	5	**8** J	**8.5** J	**10.2** J		2.8 J
Copper	ug/L	200	21.9 J	25.5 J	25.5		7.4 J
Iron	ug/L	300	**21000**	**21400**	**25300**		**8620**
Lead	ug/L	25	6.8 J	11.3 J	11.4 J		3.1 J
Magnesium	ug/L	35000(G)	8120	8220	9110		12400
Manganese	ug/L	300	**658** J	**784** J	**876** J		**200** J
Mercury	ug/L	2	-	0.12 J	0.09 J		-
Nickel	ug/L		23.1 J	35.9 J	30.1 J		8.6 J
Potassium	ug/L		4010 J	2760 J	3330 J		2830 J
Sodium	ug/L	20000	3580 J	4140 J	4180 J		4300 J
Vanadium	ug/L	14	13.7 J	**14.2** J	**17.7** J		5.2 J
Zinc	ug/L	300	167 J	88.4 J	72.6 J		37 J

GROUNDWATER SAMPLES - 2001

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	27-Sep-01	
Source:	SOUTH HILL DUMP MW-1S	
Lab ID:	L77138-1	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	U	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	37161	
Source:	SOUTH HILL DUMP MW-1B	
Lab ID:	L77138-2	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	U	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	37161	
Source:	SOUTH HILL DUMP MW-2S	
Lab ID:	L77138-3	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	U	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	37161	
Source:	SOUTH HILL DUMP MW-2B	
Lab ID:	L77138-4	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	U	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	27-Sep-01	
Source:	SOUTH HILL DUMP MW-2D	
Lab ID:	L77138-5	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	U	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	27-Sep-01	
Source:	SOUTH HILL DUMP MW-3S	
Lab ID:	L77138-6	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	264	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	200	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	27-Sep-01	
Source:	SOUTH HILL DUMP MW-3B	
Lab ID:	L77138-7	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	97	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	360	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	27-Sep-01	
Source:	SOUTH HILL DUMP MW-4S	
Lab ID:	L77138-10	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	U	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

New York State - DEC		
Brad Brown		
625 Broadway, 11th Floor		
Albany, NY 12233-7017		
Project:	BRAD BROWN	
Sampled:	27-Sep-01	
Source:	SOUTH HILL DUMP MW-4B	
Lab ID:	L77138-11	
Analysis	Result	Units
ASP 95-1		
Chloromethane	U	ug/l
Bromomethane	U	ug/l
Vinyl chloride	U	ug/l
Chloroethane	U	ug/l
Methylene chloride	U	ug/l
Acetone	U	ug/l
Carbon disulfide	U	ug/l
1,1-Dichloroethene	U	ug/l
trans-1,2-Dichloroethene	U	ug/l
1,1-Dichloroethane	U	ug/l
cis-1,2-Dichloroethene	U	ug/l
MEK(2-Butanone)	U	ug/l
Chloroform	U	ug/l
1,1,1-Trichloroethane	U	ug/l
Carbon tetrachloride	U	ug/l
Benzene	U	ug/l
1,2-Dichloroethane	U	ug/l
Trichloroethene	7 J	ug/l
1,2-Dichloropropane	U	ug/l
Bromodichloromethane	U	ug/l
cis-1,3-Dichloropropene	U	ug/l
MIBK(4-Methyl-2-pentanone)	U	ug/l
Toluene	U	ug/l
trans-1,3-Dichloropropene	U	ug/l
1,1,2-Trichloroethane	U	ug/l
Tetrachloroethene	U	ug/l
2-Hexanone	U	ug/l
Dibromochloromethane	U	ug/l
Chlorobenzene	U	ug/l
Ethylbenzene	U	ug/l
p-Xylene/m-Xylene	U	ug/l
o-Xylene	U	ug/l
Styrene	U	ug/l
Bromoform	U	ug/l
1,1,2,2-Tetrachloroethane	U	ug/l

Table B.2: TP-40 Aqueous Sample Results

	SAMPLE ID:	TP40W	40SEEP
	LAB ID:	3080901	3082304
	SOURCE:	NYTEST	NYTEST
	SDG:	30809	SHD3
	MATRIX:	WATER	WATER
	SAMPLED:	3/17/97	3/19/97
	VALIDATED:	7/25/97	7/25/97
COMPOUND	UNITS:		
VOLATILES			
Acetone	µg/L	33	8 J
Benzene	µg/L	2 J	-
1,2-Dichloroethene (total)	µg/L	1,400	540
Toluene	µg/L	4 J	-
Trichloroethene	µg/L	560	420
Vinyl Chloride	µg/L	190	58
SEMIVOLATILES			
4-Methylphenol	µg/L		24
2,4,5-Trichlorophenol	µg/L		2 J
PESTICIDES/PCBs			
NONE	µg/L		-
INORGANICS			
Aluminum	µg/L		4,530 J
Barium	µg/L		196 J
Cadmium	µg/L		1 J
Calcium	µg/L		70,800
Chromium	µg/L		5 J
Cobalt	µg/L		3 J
Copper	µg/L		16 J
Iron	µg/L		8,680
Lead	µg/L		36 J
Magnesium	µg/L		17,700
Manganese	µg/L		756
Nickel	µg/L		17 J
Potassium	µg/L		14,000
Sodium	µg/L		25,000
Vanadium	µg/L		7 J
Zinc	µg/L		361
Total Cyanide	µg/L		30

Notes:
ug/L = micrograms per liter
J = estimated value

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Table B.7: 1997 Groundwater Sample Results

	SAMPLE ID:	AMBIENT WATER	MW001S	MW001B
	LAB ID:	QUALITY STANDARD	3134501	3134502
	SOURCE:	OR GUIDANCE	NYTEST	NYTEST
	SDG:	VALUE	SHD8	SHD8
	MATRIX:	(see Note 1)	WATER	WATER
	SAMPLED:		5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97
COMPOUND	UNITS:			
VOLATILES				
1,2-Dichloroethene (total)	µg/L	5	-	-
Trichloroethene	µg/L	5	-	-
SEMIVOLATILES				
4-Chloroaniline	µg/L	5	-	-
bis(2-Ethylhexyl)phthalate	µg/L	5	3 J	2 J
PESTICIDES/PCBs				
NONE			-	-
METALS				
Aluminum	µg/L	2000(E)	11500 J	11400 J
Arsenic	µg/L	25	-	7.1 J
Barium	µg/L	1000	97.6 J	132 J
Beryllium	µg/L	3(G)	0.32 J	0.33 J
Cadmium	µg/L	5	-	-
Calcium	µg/L	NL	20700 J	22900 J
Chromium	µg/L	50	19.2	24.7
Cobalt	µg/L	NL	8 J	8.5 J
Copper	µg/L	200	21.9 J	25.5 J
Iron	µg/L	300	21000	21400
Lead	µg/L	25	6.8 J	11.3 J
Magnesium	µg/L	35000(G)	8120	8220
Manganese	µg/L	300	658 J	784 J
Mercury	µg/L	0.7	-	0.12 J
Nickel	µg/L	100	23.1 J	35.9 J
Potassium	µg/L	NL	4010 J	2760 J
Sodium	µg/L	20000	3580 J	4140 J
Vanadium	µg/L	NL	13.7 J	14.2 J
Zinc	µg/L	2000(G)	167 J	88.4 J

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standard or guidance value (G). Where numbers were not available, NYSDEC Div. of Water "Generic Effluent Criteria for Surface Water Discharges" (E) was utilized.
Highlighted values greater than standard or guidance value
NL = no groundwater criteria listed
µg/L = micrograms per liter
J = estimated value
R = Data Rejected

Table B.7: 1997 Groundwater Sample Results

			DUP of MW001B	
	SAMPLE ID:	AMBIENT WATER	MW005	MW002S
	LAB ID:	QUALITY STANDARD	3134505	3134518
	SOURCE:	OR GUIDANCE	NYTEST	NYTEST
	SDG:	VALUE	SHD8	SHD8
	MATRIX:	(see Note 1)	WATER	WATER
	SAMPLED:		5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97
COMPOUND	UNITS:			
VOLATILES				
1,2-Dichloroethene (total)	µg/L	5	-	-
Trichloroethene	µg/L	5	-	-
SEMIVOLATILES				
4-Chloroaniline	µg/L	5	-	
bis(2-Ethylhexyl)phthalate	µg/L	5	2 J	
PESTICIDES/PCBs				
NONE			-	
METALS				
Aluminum	µg/L	2000(E)	14200 J	
Arsenic	µg/L	25	11.4	
Barium	µg/L	1000	151 J	
Beryllium	µg/L	3(G)	0.39 J	
Cadmium	µg/L	5	-	
Calcium	µg/L	NL	23600 J	
Chromium	µg/L	50	22.7	
Cobalt	µg/L	NL	10.2 J	
Copper	µg/L	200	25.5	
Iron	µg/L	300	25300	
Lead	µg/L	25	11.4 J	
Magnesium	µg/L	35000(G)	9110	
Manganese	µg/L	300	876 J	
Mercury	µg/L	0.7	0.09 J	
Nickel	µg/L	100	30.1 J	
Potassium	µg/L	NL	3330 J	
Sodium	µg/L	20000	4180 J	
Vanadium	µg/L	NL	17.7 J	
Zinc	µg/L	2000(G)	72.6 J	

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standar
value (G). Where numbers were not available, NYSDEC Div. of Water
Effluent Criteria for Surface Water Discharges" (E) was utilized.
Highlighted values greater than standard or guidance value
NL = no groundwater criteria listed
µg/L = micrograms per liter
J = estimated value
R = Data Rejected

Table B.7: 1997 Groundwater Sample Results

	SAMPLE ID:	AMBIENT WATER	MW002D		MW002B	
	LAB ID:	QUALITY STANDARD	3134508		3134509	
	SOURCE:	OR GUIDANCE	NYTEST		NYTEST	
	SDG:	VALUE	SHD8		SHD8	
	MATRIX:	(see Note 1)	WATER		WATER	
	SAMPLED:		5/22/97		5/22/97	
	VALIDATED:		7/25/97		7/25/97	
COMPOUND	UNITS:					
VOLATILES						
1,2-Dichloroethene (total)	µg/L	5	-		-	
Trichloroethene	µg/L	5	-		4	J
SEMIVOLATILES						
4-Chloroaniline	µg/L	5		R		R
bis(2-Ethylhexyl)phthalate	µg/L	5	1	J	-	
PESTICIDES/PCBs						
NONE			-		-	
METALS						
Aluminum	µg/L	2000(E)	4490	J	4270	J
Arsenic	µg/L	25	-		5.5	J
Barium	µg/L	1000	70.7	J	135	J
Beryllium	µg/L	3(G)	-		-	
Cadmium	µg/L	5	-		-	
Calcium	µg/L	NL	46300	J	43900	J
Chromium	µg/L	50	7.6	J	27.6	
Cobalt	µg/L	NL	2.8	J	7.1	J
Copper	µg/L	200	7.4	J	43.4	
Iron	µg/L	300	8620		47600	
Lead	µg/L	25	3.1	J	12.6	J
Magnesium	µg/L	35000(G)	12400		8690	
Manganese	µg/L	300	200	J	622	J
Mercury	µg/L	0.7	-		-	
Nickel	µg/L	100	8.6	J	45	
Potassium	µg/L	NL	2830	J	-	
Sodium	µg/L	20000	4300	J	3230	J
Vanadium	µg/L	NL	5.2	J	6.2	J
Zinc	µg/L	2000(G)	37	J	40.2	J

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standar
value (G). Where numbers were not available, NYSDEC Div. of Water
Effluent Criteria for Surface Water Discharges" (E) was utilized.
Highlighted values greater than standard or guidance value
NL = no groundwater criteria listed
µg/L = micrograms per liter
J = estimated value
R = Data Rejected

Table B.7: 1997 Groundwater Sample Results

	SAMPLE ID:	AMBIENT WATER	MW003S	MW003B
	LAB ID:	QUALITY STANDARD	3134510	3134511
	SOURCE:	OR GUIDANCE	NYTEST	NYTEST
	SDG:	VALUE	SHD8	SHD8
	MATRIX:	(see Note 1)	WATER	WATER
	SAMPLED:		5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97
COMPOUND	UNITS:			
VOLATILES				
1,2-Dichloroethene (total)	µg/L	5	18	56
Trichloroethene	µg/L	5	80	540
SEMIVOLATILES				
4-Chloroaniline	µg/L	5	R	R
bis(2-Ethylhexyl)phthalate	µg/L	5	2 J	1 J
PESTICIDES/PCBs				
NONE			-	-
METALS				
Aluminum	µg/L	2000(E)	948 J	936 J
Arsenic	µg/L	25	-	-
Barium	µg/L	1000	48.3 J	121 J
Beryllium	µg/L	3(G)	-	-
Cadmium	µg/L	5	-	-
Calcium	µg/L	NL	57800 J	75200 J
Chromium	µg/L	50	-	-
Cobalt	µg/L	NL	-	-
Copper	µg/L	200	3 J	3.9 J
Iron	µg/L	300	2000	3850
Lead	µg/L	25	-	-
Magnesium	µg/L	35000(G)	13700	14900
Manganese	µg/L	300	46.8 J	231 J
Mercury	µg/L	0.7	-	-
Nickel	µg/L	100	-	6.4 J
Potassium	µg/L	NL	9140	1980 J
Sodium	µg/L	20000	20900	23600
Vanadium	µg/L	NL	-	-
Zinc	µg/L	2000(G)	34.3 J	23.9 J

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standar
value (G). Where numbers were not available, NYSDEC Div. of Water
Effluent Criteria for Surface Water Discharges" (E) was utilized.
Highlighted values greater than standard or guidance value
NL = no groundwater criteria listed
µg/L = micrograms per liter
J = estimated value
R = Data Rejected

Table B.7: 1997 Groundwater Sample Results

	SAMPLE ID:	AMBIENT WATER	MW004S	MW004B
	LAB ID:	QUALITY STANDARD	3134506	3134507
	SOURCE:	OR GUIDANCE	NYTEST	NYTEST
	SDG:	VALUE	SHD8	SHD8
	MATRIX:	(see Note 1)	WATER	WATER
	SAMPLED:		5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97
COMPOUND	UNITS:			
VOLATILES				
1,2-Dichloroethene (total)	µg/L	5	-	-
Trichloroethene	µg/L	5	-	4 J
SEMIVOLATILES				
4-Chloroaniline	µg/L	5	R	R
bis(2-Ethylhexyl)phthalate	µg/L	5	2 J	2 J
PESTICIDES/PCBs				
NONE			-	-
METALS				
Aluminum	µg/L	2000(E)	463 J	1180 J
Arsenic	µg/L	25	-	-
Barium	µg/L	1000	27 J	86.8 J
Beryllium	µg/L	3(G)	-	-
Cadmium	µg/L	5	-	2.6 J
Calcium	µg/L	NL	22200 J	39200 J
Chromium	µg/L	50	-	-
Cobalt	µg/L	NL	-	-
Copper	µg/L	200	2.3 J	4.8 J
Iron	µg/L	300	811	3160
Lead	µg/L	25	-	1.8 J
Magnesium	µg/L	35000(G)	3450 J	8630
Manganese	µg/L	300	25 J	46.3 J
Mercury	µg/L	0.7	-	-
Nickel	µg/L	100	-	4.5 J
Potassium	µg/L	NL	-	-
Sodium	µg/L	20000	1900 J	3690 J
Vanadium	µg/L	NL	-	-
Zinc	µg/L	2000(G)	62.6 J	19.9 J

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standar
value (G). Where numbers were not available, NYSDEC Div. of Water
Effluent Criteria for Surface Water Discharges" (E) was utilized.
Highlighted values greater than standard or guidance value
NL = no groundwater criteria listed
µg/L = micrograms per liter
J = estimated value
R = Data Rejected

Prepared/Date: RTB 10/17/2005
Checked/Date: MJS 10/20/05

Table B.8: 2001 Groundwater Sample Results

	SAMPLE ID:	AMBIENT WATER QUALITY STANDARD OR GUIDANCE VALUE (see Note 1)	MW001S	MW001B	MW002S	MW002B	MW002D
	LAB ID:		L77138-1	L77138-2	L77138-3	L77138-4	L77138-5
	SOURCE:						
	SDG:						
	MATRIX:		WATER	WATER	WATER	WATER	WATER
	SAMPLED:		9/27/2001	9/27/2001	9/27/2001	9/27/2001	9/27/2001
	VALIDATED:						
COMPOUND	UNITS:						
VOLATILES							
cis-1,2-Dichloroethene	µg/L	5	-	-	-	-	-
Trichloroethene	µg/L	5	-	-	-	-	-

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standard
Highlighted values greater than standard or guidance value
µg/L = micrograms per liter
J = estimated value

Table B.8: 2001 Groundwater Sample Results

	SAMPLE ID:	AMBIENT WATER	MW003S	MW003B	MW004S	MW004B
	LAB ID:	QUALITY STANDARD	L77138-6	L77138-7	L77138-10	L77138-11
	SOURCE:	OR GUIDANCE				
	SDG:	VALUE				
	MATRIX:	(see Note 1)	WATER	WATER	WATER	WATER
	SAMPLED:		9/27/2001	9/27/2001	9/27/2001	9/27/2001
	VALIDATED:					
COMPOUND	UNITS:					
VOLATILES						
cis-1,2-Dichloroethene	µg/L	5	264	97	-	-
Trichloroethene	µg/L	5	200	360	-	7 J

Notes:
1. Cleanup objectives from TOGS 1.1.1, Class GA groundwater standard
Highlighted values greater than standard or guidance value
µg/L = micrograms per liter
J = estimated value

Prepared/Date: RTB 10/17/05
Checked/Date: MJS 10/20/05

SURFACE WATER DATA TABLES

TABLE 2

SURFACE WATER ANALYTICAL DATA SUMMARY

SOUTH HILL DUMP SITE
VALIDATED SURFACE WATER SAMPLE RESULT
DETECTED COMPOUND SUMMARY

	SAMPLE ID:	SURFACE WATER	SW001	SW002	SW003	SW004	SW005	SW006
	LAB ID:	STANDARD	3134512	3134513	3134514	3134515	3134516	3134517
	SOURCE:	TOGS 1.1.1*	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:		SHD8	SHD8	SHD8	SHD8	SHD8	SHD8
	MATRIX:		WATER	WATER	WATER	WATER	WATER	WATER
	SAMPLED:		5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:							
VOLATILES								
1,2-Dichloroethene (total)	ug/L	5	-	-	2 J	**180**	-	-
Trichloroethene	ug/L	11(G)	-	-	-	**530**	4 J	7 J
Vinyl Chloride	ug/L	0.7	-	-	-	**32**	-	-
SEMIVOLATILES								
4-Chloroaniline	ug/L		-	R	-	-	-	-
Di-n-butylphthalate	ug/L	50	-	-	-	-	-	4 J
1,4-Dichlorobenzene	ug/L	5	-	1 J	1 J	-	-	-
Diethylphthalate	ug/L	50	-	6 J	-	-	3 J	-
Fluoranthene	ug/L	10	-	-	-	-	2 J	-
N-Nitrosodiphenylamine	ug/L	10	-	-	-	2 J	-	-
Pyrene	ug/L	10	-	-	-	-	2 J	-
bis(2-Ethylhexyl)phthalate	ug/L	0.6	-	**2** J	**4** J	**5** J	**18** J	**14** J
PESTICIDES/PCBs								
NONE	ug/L		-	-	-	-	-	R
INORGANICS								
Aluminum	ug/L	100	**137** J	**283000** J	**14500** J	**81200** J	**11100** J	**12900** J
Antimony	ug/L	10	-	**105**	-	**11.6** J	-	-
Arsenic	ug/L	190	-	85.9	-	51.1	-	7.8 J
Barium	ug/L	1000	19.9 J	**4830**	304	**2820**	236	217
Beryllium	ug/L	1,100	-	12.6	.55 J	3.4 J	0.48 J	0.49 J
Cadmium	ug/L	1.2	-	**12.5**	-	**16.2**	**1.3** J	-
Calcium	ug/L		18100 J	230000 J	92000 J	117000 J	60500 J	52200 J
Chromium	ug/L	207	-	**457**	18.9	152	21.5	18.4
Cobalt	ug/L	5	-	**237**	**16.3** J	**80.4**	**10.8** J	**8.2** J
Copper	ug/L	24	2.9 J	**590**	**30.8**	**595**	**33.2**	**26**
Iron	ug/L	300	105	**2420000**	**91100**	**286000**	**20700**	**21300**
Lead	ug/L	4	-	**1040** J	**27.7** J	**2970** J	**69.9** J	**36.4** J
Magnesium	ug/L	35,000	3710 J	**102000**	15800	**45500**	12700	14100
Manganese	ug/L	300	4.9 J	**11000** J	**2130** J	**7990** J	**1900** J	**1130** J
Mercury	ug/L	0.2(G)	-	**2.8**	0.09 J	**1**	0.08 J	0.07 J
Nickel	ug/L	96	-	**819**	70.1	**291**	37.9 J	29.3 J
Potassium	ug/L		-	12900	7170	17700	4300 J	6550
Silver	ug/L	0.1	-	**11**	-	**6.8** J	-	-
Sodium	ug/L		8690	13000	14200	26700	12200	17100
Vanadium	ug/L	14	-	**405**	**19.4** J	**201**	**16.2** J	**17.6** J
Zinc	ug/L	30	9.4 J	**9470** J	**413** J	**14500** J	**581** J	**323** J
Total Cyanide	ug/L	5.2	-	**32** J	-	-	-	-

* Numbers shown represent the Class C surface water standard.
Where numbers were not availbable, NYSDEC Div. of Water
"Generic Effluent Criteria for Surface Water Discharges" was utilized.

Table B.4: Surface Water Sample Results

	SAMPLE ID:	AMBIENT WATER	SW001	SW002	SW003	SW004	SW005	SW006
	LAB ID:	QUALITY STANDARD	3134512	3134513	3134514	3134515	3134516	3134517
	SOURCE:	OR GUIDANCE	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	VALUE	SHD8	SHD8	SHD8	SHD8	SHD8	SHD8
	MATRIX:	(see Note 1)	WATER	WATER	WATER	WATER	WATER	WATER
	SAMPLED:		5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:							
VOLATILES								
1,2-Dichloroethene (total)	ug/L	5 (E)	-	-	2 J	180	-	-
Trichloroethene	ug/L	40	-	-	-	530	4 J	7 J
Vinyl Chloride	ug/L	2 (E)	-	-	-	32	-	-
SEMIVOLATILES								
4-Chloroaniline	ug/L	5(E)	-	R	-	-	-	-
Di-n-butylphthalate	ug/L	50(E)	-	-	-	-	-	4 J
1,4-Dichlorobenzene	ug/L	5*	-	1 J	1 J	-	-	-
Diethylphthalate	ug/L	50(E)	-	6 J	-	-	3 J	-
Fluoranthene	ug/L	50(E)	-	-	-	-	2 J	-
N-Nitrosodiphenylamine	ug/L	50(E)	-	-	-	2 J	-	-
Pyrene	ug/L	4.6 (G)	-	-	-	-	2 J	-
bis(2-Ethylhexyl)phthalate	ug/L	0.6	-	2 J	4 J	5 J	18 J	14 J
PESTICIDES/PCBs								
NONE	ug/L		-	-	-	-	-	R
INORGANICS								
Aluminum	ug/L	100	137 J	283000 J	14500 J	81200 J	11100 J	12900 J
Antimony	ug/L	6(E)	-	105	-	11.6 J	-	-
Arsenic	ug/L	150**	-	85.9	-	51.1	-	7.8 J
Barium	ug/L	2000(E)	19.9 J	4830	304	2820	236	217
Beryllium	ug/L	11, 1100***	-	12.6	.55 J	3.4 J	0.48 J	0.49 J
Cadmium	ug/L	(see Note 2)	-	12.5	-	16.2	1.3 J	-
Calcium	ug/L	NL	18100 J	230000 J	92000 J	117000 J	60500 J	52200 J
Chromium	ug/L	(see Note 3)	-	457	18.9	152	21.5	18.4
Cobalt	ug/L	5	-	237	16.3 J	80.4	10.8 J	8.2 J
Copper	ug/L	(see Note 4)	2.9 J	590	30.8	595	33.2	26
Iron	ug/L	300	105	2420000	91100	286000	20700	21300
Lead	ug/L	(see Note 5)	-	1040 J	27.7 J	2970 J	69.9 J	36.4 J
Magnesium	ug/L	35,000(E)	3710 J	102000	15800	45500	12700	14100
Manganese	ug/L	600(E)	4.9 J	11000 J	2130 J	7990 J	1900 J	1130 J
Mercury	ug/L	0.0007	-	2.8	0.09 J	1	0.08 J	0.07 J
Nickel	ug/L	(see Note 6)	-	819	70.1	291	37.9 J	29.3 J
Potassium	ug/L	NL	-	12900	7170	17700	4300 J	6550
Silver	ug/L	0.1****	-	11	-	6.8 J	-	-
Sodium	ug/L	(see Note 7)(E)	8690	13000	14200	26700	12200	17100
Vanadium	ug/L	14	-	405	19.4 J	201	16.2 J	17.6 J
Zinc	ug/L	(see Note 8)	9.4 J	9470 J	413 J	14500 J	581 J	323 J
Total Cyanide	ug/L	5.2*****	-	32 J	-	-	-	-

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Notes
1. Cleanup objectives from TOGS 1.1.1, Class C surface water standard or guidance value (G). Where numbers were not available, NYSDEC Div. of Water "Generic Effluent Criteria for Surface Water Discharges" (E) was utilized
2. Cadmium criteria lesser of (0.85)exp(0.7852[ln(ppm hardness)]-2.715) or (0.85)exp(1.128[ln(ppm hardness)]-3.6867)
3. Chromium criteria lesser of (0.86)exp(0.819[ln(ppm hardness)]+0.6848) or (0.316)exp(0.819[ln(ppm hardness)]+3.7256)
4. Copper criteria lesser of (0.96)exp(0.8545[ln(ppm hardness)]-1.702) or (0.96)exp(0.9422[ln(ppm hardness)]-1.7)
5. Lead criteria lesser of {1.46203-[ln (hardness) (0.145712)]}exp(1.273[ln(hardness)]-4.297) or {1.46203-[ln(hardness) (0.145712)]}exp(1.273[ln(hardness)]-1.502)
6. Nickel criteria lesser of (0.997)exp(0.846[ln(hardness)]+0.0584) or (0.998)exp(0.846[ln(hardness)]+ 2.255)
7. Sodium criteria to be determined on a case-by-case basis.
8. Zinc criteria lesser of exp(0.85[ln(ppm hardness)]+0.5) or 0.978exp(0.8473[ln(ppm hardness)]+0.884)

Highlighted values greater than standard or guidance value

* applies to sum of 1,2-, 1,3-, and 1,4-dichlorobenzene

**applies to dissolved form of arsenic

***standard for beryllium is 11 ug/L for hardness less than or equal to 75 mg/L, 1100 ug/L for

****applies to ionic silver

*****cyanide criteria for free cyanide, the sum of HCN and CN expressed as CN.

ug/L = micrograms per liter

J = estimated value

NL = not listed

TABLE 3

SEDIMENT ANALYTICAL DATA SUMMARY

SOUTH HILL DUMP SITE
VALIDATED SEDIMENT SAMPLE RESULTS
DETECTED COMPOUND SUMMARY

COMPOUND	SAMPLE ID:	DFW SEDIMENT CRITERIA	SD001	SD008 (DUP of SD001)	SD002	SD003	SD004	SD005	SD006	SD007
	LAB ID:		3134101	3134108	3134104	3134109	3134105	3134106	3134110	3134107
	SOURCE:		NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:		SHD7	SHD7	SHD7	SHD7	SHD7	SHD7	SHD7	SHD7
	MATRIX:		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
	SAMPLED:		5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97
	VALIDATED:		7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97
	UNITS:									
VOLATILES										
1,2-Dichloroethene (total)	mg/Kg		-	-	-	0.009 J	-	-	-	-
Trichloroethene	mg/Kg		-	-	-	0.017	-	-	-	-
SEMIVOLATILES										
Acenaphthene	mg/Kg	140	-	-	-	0.32 J	-	-	-	-
Anthracene	mg/Kg		-	-	-	0.36 J	0.089 J	-	-	-
Benzo(a)anthracene	mg/Kg		-	-	-	0.93 J	0.35 J	-	-	-
Benzo(a)pyrene	mg/Kg	1.3	-	-	-	0.59 J	0.15 J	-	-	-
Benzo(b)fluoranthene	mg/Kg		-	-	-	0.62 J	0.32 J	-	-	-
Benzo(k)fluoranthene	mg/Kg		-	-	-	0.79 J	0.25 J	-	-	-
Carbazole	mg/Kg		-	-	-	0.26 J	-	-	-	-
Chrysene	mg/Kg		-	-	-	0.96 J	0.39 J	-	-	-
Fluoranthene	mg/Kg	1,020	-	-	-	2.2	0.75 J	-	-	-
Fluorene	mg/Kg		-	-	-	0.26 J	-	-	-	-
Naphthalene	mg/Kg		-	-	-	0.23 J	-	-	-	-
Phenanthrene	mg/Kg	120	-	-	-	1.9	0.12 J	-	-	-
Pyrene	mg/Kg		-	-	-	1.2 J	0.78 J	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	199.5	0.2 J	0.2 J	0.13 J	4.9	2.2 J	0.75 J	0.1 J	0.53
PESTICIDES/PCBs										
4,4'-DDD	mg/Kg	0.01	-	-	-	**0.012** JN	-	-	-	-
4,4'-DDE	mg/Kg	0.01	-	-	-	**0.055**	-	0.0057 J	-	-
4,4'-DDT	mg/Kg	0.01	-	-	-	**0.2**	0.0073 J	0.0048 JN	-	-
Endosulfan II	mg/Kg	0.03	-	-	-	0.0053 J	0.0044 JN	-	-	-
Endrin	mg/Kg	0.8	-	-	-	-	0.015 J	-	-	-
alpha-Chlordane	mg/Kg	0.001	-	-	-	**0.0017** J	-	-	-	-
INORGANICS										
Aluminum	mg/Kg		10200 J	9770 J	15200 J	11100 J	14700 J	13200 J	843 J	13400 J
Antimony	mg/Kg	2	**6.6** J	**6.2** J	-	**2.8** J	-	-	**8.4** J	1.3 J
Arsenic	mg/Kg	6	3.9 J	3.6 J	4	**7.3**	**7.3** J	5.5 J	-	**6.1**
Barium	mg/Kg		207 J	180 J	128 J	411 J	141 J	180 J	147 J	130 J
Beryllium	mg/Kg		0.42 J	0.4 J	0.54 J	0.42 J	0.57 J	0.53 J	-	0.51 J
Cadmium	mg/Kg	0.6	-	-	0.08 J	**1.4**	**1.1** J	0.6 J	**8.3**	0.13 J
Calcium	mg/Kg		6010 J	5390 J	2060 J	8150 J	5200 J	5660 J	267000 J	2750 J
Chromium	mg/Kg	26	15.4 J	16.4 J	18.6	23.8	**33.2** J	19.2 J	**97.7**	19.8
Cobalt	mg/Kg		12.7 J	11.5 J	10.2	11.1	10.6 J	11.8 J	3.5 J	11.7
Copper	mg/Kg	16	**22** J	**19.4** J	13.6 J	**60.5** J	**26.9** J	**19.8** J	**37** J	15.9 J
Iron	mg/Kg	20,000	**167000** J	**136000** J	**44600** J	**29700** J	**26900** J	**26100** J	**148000** J	**28300** J
Lead	mg/Kg	31	**33** J	28.2 J	15.5 J	**334** J	**75.4** J	28.9 J	20.3 J	**31.8** J
Magnesium	mg/Kg		3410 J	3160 J	3740 J	3760 J	4140 J	4030 J	16200 J	4080 J
Manganese	mg/Kg	460	**927** J	**913** J	**521** J	**876** J	**733** J	**1970** J	**1010** J	**1290** J
Mercury	mg/Kg	0.15	0.08 J	0.08 J	0.05 J	0.08 J	0.11 J	0.06 J	-	0.07 J
Nickel	mg/Kg	16	**33.9** J	**30.9** J	**35** J	**31** J	**34.3** J	**33** J	**91.5** J	**27.7** J
Potassium	mg/Kg		957 J	1040 J	1210	1230	1230 J	1210 J	143 J	1080
Silver	mg/Kg	1	-	-	-	-	-	-	**2.4** J	-
Sodium	mg/Kg		186 J	182 J	142 J	349 J	250 J	162 J	1280	123 J
Vanadium	mg/Kg		18.4 J	17.2 J	21.6	24.1	23.5 J	20.9 J	3.8 J	19.3
Zinc	mg/Kg	120	**581** J	**500** J	**290** J	**1240** J	**403** J	**271** J	**170** J	**172** J
Total Cyanide	mg/Kg		-	-	-	0.71	-	-	3.8	-
TCLP METALS										
Barium	mg/L	100				1.8			0.63	
Cadmium	mg/L	1				0.013			0.0081	
Lead	mg/L	5				0.25			-	

SEDIMENT DATA TABLES

Table 1.4: Determination of Sediment Screening Values for Organic Contaminants

COMPOUND	SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	HUMAN HEALTH BIOACCUM-ULATION µg/g OC	BENTHIC AQUATIC LIFE ACUTE TOXICITY µg/g OC	BENTHIC AQUATIC LIFE CHRONIC TOXICITY µg/g OC	WILDLIFE BIOACCUM-ULATION µg/g OC	SEDIMENT SCREENING VALUE mg/kg (see Note 1)
VOLATILES						
1,2-Dichloroethene (total)	mg/Kg	NL	NL	NL	NL	NL
Trichloroethene	mg/Kg	2	NL	NL	NL	20
SEMIVOLATILES						
Acenaphthene	mg/Kg	NL	NL	140	NL	1400
Anthracene	mg/Kg	NL	986	107	NL	1070
Benzo(a)anthracene	mg/Kg	1.3	NL	NL	NL	13
Benzo(a)pyrene	mg/Kg	1.3	NL	NL	NL	13
Benzo(b)fluoranthene	mg/Kg	1.3	NL	NL	NL	13
Benzo(k)fluoranthene	mg/Kg	1.3	NL	NL	NL	13
Carbazole	mg/Kg	NL	NL	NL	NL	NL
Chrysene	mg/Kg	1.3	NL	NL	NL	13
Fluoranthene	mg/Kg	NL	NL	NL	1020	10200
Fluorene	mg/Kg	NL	73	8	NL	80
Naphthalene	mg/Kg	NL	258	30	NL	300
Phenanthrene	mg/Kg	NL	NL	120	NL	1200
Pyrene	mg/Kg	NL	8775	961	NL	9610
bis(2-Ethylhexyl)phthalate	mg/Kg	NL	NL	199.5	NL	1995
PESTICIDES/PCBs						
4,4'-DDD	mg/Kg	0.01	1100	1	1	0.1
4,4'-DDE	mg/Kg	0.01	1100	1	1	0.1
4,4'-DDT	mg/Kg	0.01	1100	1	1	0.1
Endosulfan II	mg/Kg	NL	0.78	0.03	NL	0.3
Endrin	mg/Kg	0.8	NL	4	0.8	8
alpha-Chlordane	mg/Kg	0.001	1.4	0.03	0.006	0.01

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Notes:
1. Sediment Screening Values according to Table 1, NYSDEC Department of Fish and Wildlife Technical Guidance for Screening Contaminated Sediments, 1999.
Risk based values presented based upon Fresh (FW) or Fresh and Saltwater (FS) Criteria.
Sediment Screening Values presented in this table calculated for sediment organic content of 1%, and should be adjusted according to site-specific values.
mg/kg =milligrams per kilogram
µg/g OC = micrograms per gram organic content

Table B.5: Sediment Sample Results

					DUP of SD001						
	SAMPLE ID:	SEDIMENT	SEVERE	SD001	SD008	SD002	SD003	SD004	SD005	SD006	SD007
	LAB ID:	SCREENING	EFFECT	3134101	3134108	3134104	3134109	3134105	3134106	3134110	3134107
	SOURCE:	VALUE	LEVEL	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	mg/kg		SHD7	SHD7	SHD7	SHD7	SHD7	SHD7	SHD7	SHD7
	MATRIX:	(see Note 1)		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
	SAMPLED:			5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97
	VALIDATED:			7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:										
VOLATILES											
1,2-Dichloroethene (total)	mg/Kg	NL		-	-	-	0.009 J	-	-	-	-
Trichloroethene	mg/Kg	20		-	-	-	0.017	-	-	-	-
SEMIVOLATILES											
Acenaphthene	mg/Kg	1400		-	-	-	0.32 J	-	-	-	-
Anthracene	mg/Kg	1070		-	-	-	0.36 J	0.089 J	-	-	-
Benzo(a)anthracene	mg/Kg	13		-	-	-	0.93 J	0.35 J	-	-	-
Benzo(a)pyrene	mg/Kg	13		-	-	-	0.59 J	0.15 J	-	-	-
Benzo(b)fluoranthene	mg/Kg	13		-	-	-	0.62 J	0.32 J	-	-	-
Benzo(k)fluoranthene	mg/Kg	13		-	-	-	0.79 J	0.25 J	-	-	-
Carbazole	mg/Kg	NL		-	-	-	0.26 J	-	-	-	-
Chrysene	mg/Kg	13		-	-	-	0.96 J	0.39 J	-	-	-
Fluoranthene	mg/Kg	10200		-	-	-	2.2	0.75 J	-	-	-
Fluorene	mg/Kg	80		-	-	-	0.26 J	-	-	-	-
Naphthalene	mg/Kg	300		-	-	-	0.23 J	-	-	-	-
Phenanthrene	mg/Kg	1200		-	-	-	1.9	0.12 J	-	-	-
Pyrene	mg/Kg	9610		-	-	-	1.2 J	0.78 J	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	1995		0.2 J	0.2 J	0.13 J	4.9	2.2 J	0.75 J	0.1 J	0.53
PESTICIDES/PCBs											
4,4'-DDD	mg/Kg	0.1		-	-	-	0.012 JN	-	-	-	-
4,4'-DDE	mg/Kg	0.1		-	-	-	0.055	-	0.0057 J	-	-
4,4'-DDT	mg/Kg	0.1		-	-	-	0.2	0.0073 J	0.0048 JN	-	-
Endosulfan II	mg/Kg	0.3		-	-	-	0.0053 J	0.0044 JN	-	-	-
Endrin	mg/Kg	8		-	-	-	-	0.015 J	-	-	-
alpha-Chlordane	mg/Kg	0.01		-	-	-	0.0017 J	-	-	-	-
INORGANICS											
Aluminum	mg/Kg	NL	NL	10200 J	9770 J	15200 J	11100 J	14700 J	13200 J	843 J	13400 J
Antimony	mg/Kg	2	25	6.6 J	6.2 J	-	2.8 J	-	-	8.4 J	1.3 J
Arsenic	mg/Kg	6	33	3.9 J	3.6 J	4	7.3	7.3 J	5.5 J	-	6.1
Barium	mg/Kg	NL	NL	207 J	180 J	128 J	411 J	141 J	180 J	147 J	130 J
Beryllium	mg/Kg	NL	NL	0.42 J	0.4 J	0.54 J	0.42 J	0.57 J	0.53 J	-	0.51 J

Table B.5: Sediment Sample Results

	SAMPLE ID:	SEDIMENT	SEVERE	SD001	DUP of SD001 SD008	SD002	SD003	SD004	SD005	SD006	SD007
	LAB ID:	SCREENING	EFFECT	3134101	3134108	3134104	3134109	3134105	3134106	3134110	3134107
	SOURCE:	VALUE	LEVEL	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	mg/kg		SHD7	SHD7	SHD7	SHD7	SHD7	SHD7	SHD7	SHD7
	MATRIX:	(see Note 1)		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
	SAMPLED:			5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97	5/22/97
	VALIDATED:			7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:										
Cadmium	mg/Kg	0.6	9	-	-	0.08 J	1.4	1.1 J	0.6 J	8.3	0.13 J
Calcium	mg/Kg	NL	NL	6010 J	5390 J	2060 J	8150 J	5200 J	5660 J	267000 J	2750 J
Chromium	mg/Kg	26	110	15.4 J	16.4 J	18.6	23.8	33.2 J	19.2 J	97.7	19.8
Cobalt	mg/Kg	NL	NL	12.7 J	11.5 J	10.2	11.1	10.6 J	11.8 J	3.5 J	11.7
Copper	mg/Kg	16	110	22 J	19.4 J	13.6 J	60.5 J	26.9 J	19.8 J	37 J	15.9 J
Iron	mg/Kg	20,000	40000	167000 J	136000 J	44600 J	29700 J	26900 J	26100 J	148000 J	28300 J
Lead	mg/Kg	31	110	33 J	28.2 J	15.5 J	334 J	75.4 J	28.9 J	20.3 J	31.8 J
Magnesium	mg/Kg	NL	NL	3410 J	3160 J	3740 J	3760 J	4140 J	4030 J	16200 J	4080 J
Manganese	mg/Kg	460	1100	927 J	913 J	521 J	876 J	733 J	1970 J	1010 J	1290 J
Mercury	mg/Kg	0.15	1.3	0.08 J	0.08 J	0.05 J	0.08 J	0.11 J	0.06 J	-	0.07 J
Nickel	mg/Kg	16	50	33.9 J	30.9 J	35 J	31 J	34.3 J	33 J	91.5 J	27.7 J
Potassium	mg/Kg	NL	NL	957 J	1040 J	1210	1230	1230 J	1210 J	143 J	1080
Silver	mg/Kg	1	2.2	-	-	-	-	-	-	2.4 J	-
Sodium	mg/Kg	NL	NL	186 J	182 J	142 J	349 J	250 J	162 J	1280	123 J
Vanadium	mg/Kg	NL	NL	18.4 J	17.2 J	21.6	24.1	23.5 J	20.9 J	3.8 J	19.3
Zinc	mg/Kg	120	270	581 J	500 J	290 J	1240 J	403 J	271 J	170 J	172 J
Total Cyanide	mg/Kg	NL	NL	-	-	-	0.71	-	-	3.8	-
TCLP METALS											
Barium	mg/L	100					1.8			0.63	
Cadmium	mg/L	1					0.013			0.0081	
Lead	mg/L	5					0.25			-	

Notes:
1. Lowest Effect Level (Sediment Screening Value for inorganics) and Severe Effect Level as published for inorganics in Table 2 of NYSDEC Department of Fish and Wildlife Technical Guidance for Screening Contaminated Sediments, 1999. TCLP criteria values from STARS Memo #1, 1992. See Table 1.4 for information on how Sediment Screening Values for organic contaminants were derived.

Highlighted values greater than screening value
mg/kg =milligrams per kilogram
mg/L = milligrams per liter
N = tentatively identified compound
NL = not listed
J = Estimated value
- = compound not detected

Prepared/Date:RTB 10/20/05
Checked/Date: MJS 10/20 05

SOIL DATA TABLES

TABLE 1

TEST PIT ANALYTICAL DATA SUMMARY

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP0101 5' 3066701 NYTEST SHD1 SOIL 2/26/97 7/25/97	TP0301 3' 3066702 NYTEST SHD1 SOIL 2/27/97 7/25/97	TP0501 4' 3066703 NYTEST SHD1 SOIL 2/27/97 7/25/97	TP0701 8' 3067401 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP0801 2' 3067402 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1001 15' 3067403 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1101 12' 3067404 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1102 4' 3067405 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1201 17' 3069501 NYTEST SHD1 SOIL 3/03/97 7/25/97	DUP of TP1201 TP1211 17' 3069504 NYTEST SHD1 SOIL 3/03/97 7/25/97
COMPOUND	UNITS:											
VOLATILES												
Acetone	mg/Kg	0.20	-	-	-	-	-	-	-	-	-	-
Benzene	mg/Kg	0.06	-	-	-	-	-	-	-	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-	-	-	-	0.00 J	-	-	-
Ethylbenzene	mg/Kg	5.50	-	-	-	-	0.01 J	-	-	-	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/Kg	1.40	-	-	-	0.00 J	-	-	-	-	-	0.00 J
Toluene	mg/Kg	1.50	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/Kg	0.70	-	0.00 J	-	-	-	-	0.02	-	-	0.00 J
Vinyl Chloride	mg/Kg	0.20	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/Kg	1.20	-	-	-	-	0.00 J	-	-	-	-	0.00 J
SEMIVOLATILES												
Acenaphthene	mg/Kg	50.00	-	0.07 J	-	-	-	-	-	-	0.05 J	-
Acenaphthylene	mg/Kg	41.00	0.15 J	-	-	-	-	-	-	-	-	-
Anthracene	mg/Kg	50.00	0.20 J	0.23 J	-	-	-	-	-	-	0.15 J	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	**0.76**	**0.40** J	-	-	0.10 J	-	0.12 J	-	0.19 J	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	**0.78**	**0.32** J	-	-	-	-	**0.11** J	-	**0.16** J	-
Benzo(b)fluoranthene	mg/Kg	1.10	0.84	0.30 J	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	0.16 J	0.06 J	-	-	-	-	-	-	0.08 J	-
Benzo(k)fluoranthene	mg/Kg	1.10	0.70	0.30 J	-	-	-	-	-	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	-	-	0.45 J	4.10 J	-	-	0.05 J	-
Carbazole	mg/Kg		0.10 J	0.12 J	-	-	-	-	-	-	0.07 J	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/Kg	0.40	**0.81**	0.36 J	-	-	0.30 J	-	0.22 J	-	0.22 J	-
Di-n-butylphthalate	mg/Kg	8.10	-	-	-	-	1.00	0.41 J	-	-	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	-	-	-	-	-	0.27 J	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/Kg		-	-	-	-	-	-	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-	-	-	0.31 J	-	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/Kg	50.00	2.20	1.20	-	0.05 J	0.90	0.10 J	0.49 J	-	0.72 J	0.07 J
Fluorene	mg/Kg	50.00	0.06 J	0.08 J	-	-	-	-	-	-	0.11 J	-
Hexachlorocyclopentadiene	mg/Kg		-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	0.32 J	0.11 J	-	-	-	-	-	-	0.10 J	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	-	-	0.66 J	-	0.08 J	-	-	-
4-Methylphenol	mg/Kg	0.90	-	-	-	-	-	-	0.14 J	-	-	-
N-Nitrosodiphenylamine	mg/Kg		-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/Kg	13.00	-	-	-	-	0.32 J	-	-	-	-	-
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/Kg	50.00	0.95	0.79	-	0.05 J	5.30	0.09 J	-	0.05 J	0.69 J	0.05 J
Phenol	mg/Kg	0.03/MDL	-	-	-	-	-	-	**0.45** J	-	-	-
Pyrene	mg/Kg	50.00	1.00	0.52	-	-	0.88	-	0.50 J	-	0.46 J	0.05 J
1,2,4-Trichlorobenzene	mg/Kg		-	-	-	-	-	-	0.05 J	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	3.40	5.20	0.26 J	0.29 J	2.80	1.30 J	3.60	2.40	0.78 J	1.60 J

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP0101 5' 3066701 NYTEST SHD1 SOIL 2/26/97 7/25/97	TP0301 3' 3066702 NYTEST SHD1 SOIL 2/27/97 7/25/97	TP0501 4' 3066703 NYTEST SHD1 SOIL 2/27/97 7/25/97	TP0701 8' 3067401 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP0801 2' 3067402 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1001 15' 3067403 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1101 12' 3067404 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1102 4' 3067405 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1201 17' 3069501 NYTEST SHD1 SOIL 3/03/97 7/25/97	DUP of TP1201 TP1211 17' 3069504 NYTEST SHD1 SOIL 3/03/97 7/25/97
COMPOUND	UNITS:											
PESTICIDES/PCBs												
alpha-BHC	mg/Kg	0.11	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-	-	-	0.02 JN	-	0.00 JN	-	-
beta-BHC	mg/Kg	0.20	-	-	-	-	-	-	-	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	-	-	-	0.02 JN	0.00 JN	0.00 JN	-	-
Aldrin	mg/Kg	0.04	-	-	-	-	-	-	-	-	-	-
4,4'-DDD	mg/Kg	2.90	0.01	0.00 J	-	-	-	0.06 JN	-	0.03 J	-	0.01 JN
4,4'-DDE	mg/Kg	2.10	0.00 J	-	0.01 JN	0.00 J	0.00 J	0.03 JN	0.03 J	0.02	-	0.00 J
4,4'-DDT	mg/Kg	2.10	0.00 JN	0.00 JN	0.00 JN	-	0.00 JN	0.02 JN	0.03 JN	0.06 JN	-	0.01 JN
Dieldrin	mg/Kg	0.04	-	-	-	-	-	-	-	0.00 J	-	0.00 JN
Endosulfan I	mg/Kg	0.90	-	-	0.00 JN	-	-	-	0.00 JN	-	-	-
Endosulfan II	mg/Kg	0.90	-	-	0.07	-	0.00 J	0.01 JN	0.01 JN	0.01 JN	-	-
Endosulfan sulfate	mg/Kg	1.00	-	-	-	-	-	-	0.01 JN	-	-	-
Endrin	mg/Kg	0.10	-	-	-	-	-	0.01 JN	-	0.00 JN	-	-
Endrin aldehyde	mg/Kg		-	-	0.01 JN	-	-	-	-	0.02 J	0.01 JN	0.00 JN
Endrin ketone	mg/Kg		-	-	-	-	-	-	-	-	-	-
Heptachlor	mg/Kg	0.10	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-	-	-	-	-	-	-	0.00 J
Methoxychlor	mg/Kg		0.03	-	0.03	0.02	0.01 JN	-	0.02 JN	-	-	0.01 J
Toxaphene	mg/Kg		-	-	-	-	-	-	-	-	-	-
Aroclor-1016	mg/Kg	01/10	-	-	-	-	-	-	-	-	-	-
Aroclor-1221	mg/Kg	01/10	-	-	-	-	-	-	-	-	-	-
Aroclor-1232	mg/Kg	01/10	-	-	-	-	-	-	-	-	-	-
Aroclor-1242	mg/Kg	01/10	-	-	-	-	0.10	-	-	-	-	-
Aroclor-1248	mg/Kg	01/10	-	-	-	-	-	-	-	-	-	-
Aroclor-1254	mg/Kg	01/10	-	-	-	0.08	0.12	0.77 J	0.85	-	0.04 JN	0.13 J
Aroclor-1260	mg/Kg	01/10	-	-	2.80	-	-	0.57 J	-	0.44 J	-	-
INORGANICS												
Aluminum	mg/Kg	SB(33,000)	13500.00	12600.00	12100.00	13600.00	11200.00	8530.00	11000.00	17200.00	32900.00	26100
Antimony	mg/Kg	SB	2.10 J	17.20	2.20 J	2.60 J	2.80 J	21.90	5.40 J	2.00 J	24.00 J	16.40 J
Arsenic	mg/Kg	7.5/SB(3-12)	9.20	**18.90**	5.80	8.00	6.50	**40.70**	7.80	5.00	**26.50**	**31.50**
Barium	mg/Kg	300/SB(15-600)	181.00	528.00	138.00	137.00	69.50	146.00	111.00	82.80	**673.00** J	**904.00** J
Beryllium	mg/Kg	0.16/SB(0-1.75)	0.70 J	0.42 J	0.45 J	0.54 J	0.58 J	0.26 J	0.41 J	0.69	0.23 J	0.27 J
Cadmium	mg/Kg	1/SB(0.01-1)	**1.70**	**49.80**	**6.30**	**1.20**	**1.50**	**6.50**	**1.70**	-	**12.80**	**18.10**
Calcium	mg/Kg	SB(13-35,000)	6520.00	15600.00	18700.00	9630.00	18300.00	23100.00	33400.00	1060.00	34600.00	**55900.00**
Chromium	mg/Kg	10/SB(1.5-40)	25.10	**75.20**	27.20	28.80	38.00	**103.00**	20.10	23.60	**63.20**	**102.00**
Cobalt	mg/Kg	30/SB(2.5-60)	9.90	16.70	11.90	12.10	14.00	34.20	10.90	14.30	15.50	17.20
Copper	mg/Kg	25/SB(1-50)	**52.00**	**396.00**	**65.50**	**89.50**	**95.60**	**224.00**	**95.20**	23.30	**1250.00**	**1820.00**
Iron	mg/Kg	000/SB(2,000-500,000)	28100.00	141000.00	28900.00	43200.00	41200.00	**569000.00**	93000.00	31800.00	107000.00 J	105000.00 J
Lead	mg/Kg	SB(14)	**180.00**	**814.00**	**140.00**	**240.00**	**291.00**	**934.00**	**189.00**	11.40	**2910.00** J	**1470.00** J
Magnesium	mg/Kg	SB(100-5,000)	3500.00	4830.00	4460.00	**5310.00**	**9510.00**	4190.00	3920.00	**5450.00**	**5250.00**	**6150.00**
Manganese	mg/Kg	SB(50-5,000)	790.00	945.00	654.00	672.00	888.00	3490.00	740.00	527.00	588.00	777.00
Mercury	mg/Kg	0.10	**0.12** J	**0.11** J	**0.53**	-	-	**0.79**	**0.15** J	-	**0.21**	**0.15**
Nickel	mg/Kg	13/SB(0.5-25)	24.20	**62.10**	**35.10**	**31.70**	**30.60**	**117.00**	**27.40**	**185.00**	**178.00** J	**249.00** J
Potassium	mg/Kg	SB(8,500-43,000)	1900.00	1330.00	1280.00	1180.00	1070.00	1020.00 J	1180.00	2190.00	4240.00 J	4950.00 J
Selenium	mg/Kg	2/SB(0.1-3.9)	1.00	0.92	-	-	-	1.10 J	1.50	-	-	-
Silver	mg/Kg	SB	0.49 J	7.00	1.00 J	0.60 J	0.32 J	-	0.81 J	0.46 J	6.80	10.30
Sodium	mg/Kg	SB(6,000-8,000)	389.00 J	611.00	374.00 J	361.00 J	355.00 J	963.00 J	866.00	295.00 J	2270.00	2440.00
Thallium	mg/Kg	SB	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	150/SB(1-300)	21.80	25.10	54.80	20.00	25.20	24.60	19.10	22.90	27.30	26.5
Zinc	mg/Kg	20/SB(9-50)	**396.00**	**1610.00**	**446.00**	**281.00**	**216.00**	**2830.00**	**327.00**	**150.00**	**2380.00**	**2320.00**
Total Cyanide	mg/Kg		-	-	-	-	-	-	-	-	-	-

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP0101 5' 3066701 NYTEST SHD1 SOIL 2/26/97 7/25/97	TP0301 3' 3066702 NYTEST SHD1 SOIL 2/27/97 7/25/97	TP0501 4' 3066703 NYTEST SHD1 SOIL 2/27/97 7/25/97	TP0701 8' 3067401 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP0801 2' 3067402 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1001 15' 3067403 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1101 12' 3067404 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1102 4' 3067405 NYTEST SHD1 SOIL 2/28/97 7/25/97	TP1201 17' 3069501 NYTEST SHD1 SOIL 3/03/97 7/25/97	DUP of TP1201 TP1211 17' 3069504 NYTEST SHD1 SOIL 3/03/97 7/25/97
COMPOUND	UNITS:											
TCLP VOLATILES												
Tetrachloroethene	mg/L	0.70							-			
Trichloroethene	mg/L	0.50							-			
TCLP SEMIVOLATILES												
3+4-Methylphenol	mg/L								-			
TCLP PESTICIDES												
NONE	mg/L								-			
TCLP HERBICIDES												
NONE	mg/L								-			
TCLP METALS												
Arsenic	mg/L	5.00							0.31 J			
Barium	mg/L	100.00							1.80			
Cadmium	mg/L	1.00							0.05 J			
Lead	mg/L	5.00							1.10			
Silver	mg/L	5.00							0.06 J			

* Numbers in parentheses represent average background concentrations for Eastern US soils. Site Background (SB) information is not available.

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP1601 5' 3069505 NYTEST SHD1 SOIL 3/04/97 7/25/97	TP1801 8' 3072001 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP1901 10' 3072002 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP1902 10' 3072003 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP2101 3' 3072006 NYTEST SHD2 SOIL 3/06/97 7/25/97	TP2701 10' 3076001 NYTEST SHD2 SOIL 3/10/97 7/25/97	DUP of TP2701 TP2711 10' 3076004 NYTEST SHD2 SOIL 3/10/97 7/25/97	TP3001 4' 3076005 NYTEST SHD2 SOIL 3/11/97 7/25/97	TP3201 1' 3076006 NYTEST SHD2 SOIL 3/11/97 7/25/97
COMPOUND	UNITS:										
VOLATILES											
Acetone	mg/Kg	0.20	-	0.03	-	0.02	-	-	-	0.03 J	0.01 J
Benzene	mg/Kg	0.06	-	-	-	-	-	-	-	0.00 J	-
2-Butanone	mg/Kg	0.30	0.02	-	-	-	-	-	-	-	-
Chlorobenzene	mg/Kg	1.70	-	0.01 J	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-	0.01 J	-	-	-	-	-
Ethylbenzene	mg/Kg	5.50	0.28 J	0.07	0.00 J	0.01 J	-	-	-	0.09 J	0.00 J
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/Kg	0.10	-	0.00 J	0.00 J	0.00 J	-	0.01	0.01 J	0.02 J	0.01 J
Tetrachloroethene	mg/Kg	1.40	0.01 J	0.00 J	0.01 J	0.00 J	-	-	-	0.01 J	-
Toluene	mg/Kg	1.50	0.01	-	-	-	0.22 J	-	-	-	0.00 J
Trichloroethene	mg/Kg	0.70	-	-	0.00 J	0.04	-	0.01 J	0.01 J	-	-
Vinyl Chloride	mg/Kg	0.20	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/Kg	1.20	0.21	0.27	0.02	0.03	-	-	-	0.08 J	0.01 J
SEMIVOLATILES											
Acenaphthene	mg/Kg	50.00	2.20	-	-	-	-	-	-	-	-
Acenaphthylene	mg/Kg	41.00	-	0.05 J	-	-	-	-	-	-	-
Anthracene	mg/Kg	50.00	0.72	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	0.22 J	0.17 J	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	**0.17** J	**0.21** J	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	0.20 J	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	0.16 J	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	0.21 J	-	-	-	-	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	1.10	1.20	-	-	-	-	-	-	-
Carbazole	mg/Kg		-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-	-	-	-	-	-	-
Chrysene	mg/Kg	0.40	0.31 J	0.31 J	-	-	-	-	-	0.27 J	-
Di-n-butylphthalate	mg/Kg	8.10	-	-	-	-	0.26 J	0.54 J	-	1.00 J	-
Di-n-octylphthalate	mg/Kg	50.00	0.22 J	-	-	-	-	-	-	-	-
Dibenzofuran	mg/Kg	6.20	1.60	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/Kg		-	0.33 J	-	-	-	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-	-	-	-	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	0.10 J	-	-	-	-	-	0.20 J	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-	-	-	-	-	0.29 J	-
Fluoranthene	mg/Kg	50.00	0.67	-	-	-	0.18 J	-	-	1.50 J	-
Fluorene	mg/Kg	50.00	2.80	0.05 J	-	-	0.12 J	-	-	0.22 J	-
Hexachlorocyclopentadiene	mg/Kg		-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	0.05 J	0.14 J	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	34.00	0.30 J	-	-	0.07 J	-	-	1.20 J	-
4-Methylphenol	mg/Kg	0.90	0.68	-	-	-	-	-	-	0.21 J	0.04 J
N-Nitrosodiphenylamine	mg/Kg		-	-	-	-	-	-	-	0.72 J	-
Naphthalene	mg/Kg	13.00	7.00	0.40 J	-	-	0.16 J	-	-	1.10 J	-
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/Kg	50.00	6.90	-	-	-	0.34 J	-	-	1.00 J	-
Phenol	mg/Kg	0.03/MDL	-	**1.40**	-	-	-	-	-	-	-
Pyrene	mg/Kg	50.00	0.75	0.25 J	-	-	0.09 J	-	-	0.58 J	-
1,2,4-Trichlorobenzene	mg/Kg		-	-	-	-	-	-	-	0.14 J	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	4.00 J	28.00 J	-	-	-	-	-	23.00 J	-

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP1601 5' 3069505 NYTEST SHD1 SOIL 3/04/97 7/25/97	TP1801 8' 3072001 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP1901 10' 3072002 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP1902 10' 3072003 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP2101 3' 3072006 NYTEST SHD2 SOIL 3/06/97 7/25/97	TP2701 10' 3076001 NYTEST SHD2 SOIL 3/10/97 7/25/97	DUP of TP2701 TP2711 10' 3076004 NYTEST SHD2 SOIL 3/10/97 7/25/97	TP3001 4' 3076005 NYTEST SHD2 SOIL 3/11/97 7/25/97	TP3201 1' 3076006 NYTEST SHD2 SOIL 3/11/97 7/25/97
COMPOUND	UNITS:										
PESTICIDES/PCBs											
alpha-BHC	mg/Kg	0.11	-	R	-	-	-	-	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	0.00 JN	-	-	-	-	-	0.01 JN	-
beta-BHC	mg/Kg	0.20	-	R	-	-	-	-	-	-	-
delta-BHC	mg/Kg	0.30	-	R	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	R	-	-	-	-	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	0.00 JN	-	-	-	-	-	0.01 JN	0.01 J
Aldrin	mg/Kg	0.04	-	R	-	-	-	-	-	-	-
4,4'-DDD	mg/Kg	2.90	0.01	0.07 J	-	0.00 JN	0.00 J	-	-	0.11 JN	0.00 JN
4,4'-DDE	mg/Kg	2.10	-	R	-	-	0.00 J	-	-	0.03 J	0.01 JN
4,4'-DDT	mg/Kg	2.10	0.00 JN	R	-	0.00 JN	-	0.00 JN	-	0.02 JN	-
Dieldrin	mg/Kg	0.04	0.00 JN	R	-	-	-	0.00	-	0.01 J	-
Endosulfan I	mg/Kg	0.90	-	R	-	-	-	-	-	-	0.00 JN
Endosulfan II	mg/Kg	0.90	-	R	-	-	-	-	-	-	-
Endosulfan sulfate	mg/Kg	1.00	-	R	-	-	-	-	-	0.01 J	0.01 JN
Endrin	mg/Kg	0.10	-	R	-	-	-	-	-	-	0.00 JN
Endrin aldehyde	mg/Kg		0.00 JN	0.00 JN	-	0.00 J	-	0.00 JN	-	-	-
Endrin ketone	mg/Kg		-	R	-	-	-	-	-	-	-
Heptachlor	mg/Kg	0.10	-	R	-	-	-	-	-	0.00 JN	0.01 JN
Heptachlor epoxide	mg/Kg	0.02	-	R	-	-	-	-	-	-	-
Methoxychlor	mg/Kg		-	R	-	-	-	-	-	-	-
Toxaphene	mg/Kg		-	R	-	-	-	-	-	-	-
Aroclor-1016	mg/Kg	01/10	-	R	-	-	-	-	-	0.71 J	-
Aroclor-1221	mg/Kg	01/10	-	R	-	-	-	-	-	-	-
Aroclor-1232	mg/Kg	01/10	-	R	-	-	-	-	-	-	-
Aroclor-1242	mg/Kg	01/10	0.35	R	-	-	-	-	-	-	-
Aroclor-1248	mg/Kg	01/10	-	R	-	-	-	-	-	-	4.00
Aroclor-1254	mg/Kg	01/10	0.09	0.05 J	-	0.05	-	0.04 J	0.03 J	0.59 J	-
Aroclor-1260	mg/Kg	01/10	-	R	-	-	0.04 J	-	-	0.67 J	-
INORGANICS											
Aluminum	mg/Kg	SB(33,000)	6610.00	14800.00	22000.00	17500.00	15800.00	12900.00	13000.00	6990 J	14600.00
Antimony	mg/Kg	SB	5.90 J	3.10 J	6.70 J	5.40 J	1.70 J	4.50 J	1.90 J	9.00 J	1.70 J
Arsenic	mg/Kg	7.5/SB(3-12)	4.80	**14.20**	**16.20**	11.70	7.70	8.50	7.20	**18.20** J	5.80
Barium	mg/Kg	300/SB(15-600)	45.60 J	116.00	424.00	214.00	81.60	83.90	84.20	270.00 J	96.50
Beryllium	mg/Kg	0.16/SB(0-1.75)	0.10 J	0.39 J	0.42 J	0.32 J	0.35 J	0.31 J	0.30 J	-	0.37 J
Cadmium	mg/Kg	1/SB(0.01-1)	0.26 J	**1.60**	**39.90**	**19.00**	**1.90**	**6.10**	**3.10**	**4.70** J	-
Calcium	mg/Kg	SB(13-35,000)	7280.00	8060.00	26900.00	14700.00	2010.00	17900.00 J	**61900.00** J	23200.00 J	784.00
Chromium	mg/Kg	10/SB(1.5-40)	11.80	38.20	**70.70**	**55.20**	39.40	**114.00** J	**52.90** J	**121.00** J	19.60
Cobalt	mg/Kg	30/SB(2.5-60)	6.00 J	12.00	16.30	19.90	14.20	12.70	9.10	33.40 J	11.70
Copper	mg/Kg	25/SB(1-50)	11.90	34.20	**718.00**	**346.00**	**77.60**	**227.00** J	**114.00** J	**134.00** J	19.70
Iron	mg/Kg	000/SB(2,000-500,000)	17100.00 J	44800.00 J	112000.00 J	89200.00 J	37400.00 J	71800.00 J	42600.00 J	298000.00 J	26000.00 J
Lead	mg/Kg	SB(14)	**117.00** J	**135.00**	**1410.00**	**759.00**	**90.30**	**801.00** J	**371.00** J	**417.00** J	**17.90**
Magnesium	mg/Kg	SB(100-5,000)	3090.00	5000.00	**9130.00**	**6410.00**	4580.00	**5930.00**	**8520.00**	1650.00 J	4570.00
Manganese	mg/Kg	SB(50-5,000)	304.00	533.00	931.00	917.00	601.00	617.00	598.00	1850.00 J	336.00
Mercury	mg/Kg	0.10	-	**0.16**	0.07 J	**0.18**	0.07 J	**0.11** J	-	**0.24** J	-
Nickel	mg/Kg	13/SB(0.5-25)	15.30 J	**31.80**	**176.00**	**114.00**	**54.80**	**63.60** J	**35.90** J	**218.00** J	**29.10**
Potassium	mg/Kg	SB(8,500-43,000)	519.00 J	1530.00	4850.00	2360.00	1780.00	2020.00	2330.00	1140.00 J	1200.00
Selenium	mg/Kg	2/SB(0.1-3.9)	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	SB	13.60	0.37 J	5.40	193.00	2.30	0.98 J	0.52 J	-	0.29 J
Sodium	mg/Kg	SB(6,000-8,000)	608.00 J	315.00 J	1890.00	874.00	457.00 J	508.00 J	551.00 J	1690.00 J	208.00 J
Thallium	mg/Kg	SB	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	150/SB(1-300)	10.80	23.90	33.40	24.20	22.90	23.80	22.60	19.00 J	19.20
Zinc	mg/Kg	20/SB(9-50)	**109.00**	**368.00**	**3590.00**	**1580.00**	**252.00**	**683.00**	**488.00**	**4130.00** J	**138.00**
Total Cyanide	mg/Kg		-	-	0.73	-	-	0.80 J	-	-	-

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP1601 5' 3069505 NYTEST SHD1 SOIL 3/04/97 7/25/97	TP1801 8' 3072001 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP1901 10' 3072002 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP1902 10' 3072003 NYTEST SHD2 SOIL 3/05/97 7/25/97	TP2101 3' 3072006 NYTEST SHD2 SOIL 3/06/97 7/25/97	TP2701 10' 3076001 NYTEST SHD2 SOIL 3/10/97 7/25/97	DUP of TP2701 TP2711 10' 3076004 NYTEST SHD2 SOIL 3/10/97 7/25/97	TP3001 4' 3076005 NYTEST SHD2 SOIL 3/11/97 7/25/97	TP3201 1' 3076006 NYTEST SHD2 SOIL 3/11/97 7/25/97
COMPOUND	UNITS:										
TCLP VOLATILES											
Tetrachloroethene	mg/L	0.70									
Trichloroethene	mg/L	0.50									
TCLP SEMIVOLATILES											
3+4-Methylphenol	mg/L										
TCLP PESTICIDES											
NONE	mg/L										
TCLP HERBICIDES											
NONE	mg/L										
TCLP METALS											
Arsenic	mg/L	5.00									
Barium	mg/L	100.00									
Cadmium	mg/L	1.00									
Lead	mg/L	5.00									
Silver	mg/L	5.00									

* Numbers in parentheses represent average background concentrations for Eastern US soils. Site Background (SB) information is not available.

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP3601 2' 3076801 NYTEST SHD2 SOIL 3/12/97 7/25/97	TP3602 3' 3076802 NYTEST SHD2 SOIL 3/12/97 7/25/97	TP3801 2' 3078701 NYTEST SHD3 SOIL 3/13/97 7/25/97	TP3901 1' 3079701 NYTEST SHD3 SOIL 3/17/97 7/25/97	DUP of TP3901 TP3911 1' 3079704 NYTEST SHD3 SOIL 3/17/97 7/25/97	TP4001 4' 3079705 NYTEST SHD3 SOIL 3/17/97 7/25/97	TP4301 6' 3082302 NYTEST SHD3 SOIL 3/18/97 7/25/97	TP4601 2' 3082303 NYTEST SHD3 SOIL 3/19/97 7/25/97
COMPOUND	UNITS:									
VOLATILES										
Acetone	mg/Kg	0.20	-	-	0.01 J	-	0.00 J	0.02	0.01	0.02
Benzene	mg/Kg	0.06	-	-	-	-	-	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-	-	-	-	-	0.00 J
Chlorobenzene	mg/Kg	1.70	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-	-	-	0.13	-	-
Ethylbenzene	mg/Kg	5.50	-	-	-	-	-	0.01 J	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-	-	-	-	-	-
Methylene Chloride	mg/Kg	0.10	0.01 J	0.01 J	-	-	-	-	-	-
Tetrachloroethene	mg/Kg	1.40	-	-	-	-	-	-	-	-
Toluene	mg/Kg	1.50	-	-	-	-	-	0.01 J	-	-
Trichloroethene	mg/Kg	0.70	-	-	0.00 J	0.02 J	0.01 J	0.03	-	-
Vinyl Chloride	mg/Kg	0.20	-	-	-	-	-	0.04 J	-	-
Xylene (total)	mg/Kg	1.20	-	-	-	-	-	0.00 J	-	-
SEMIVOLATILES										
Acenaphthene	mg/Kg	50.00	-	-	-	0.07 J	-	-	-	-
Acenaphthylene	mg/Kg	41.00	-	-	-	-	-	-	-	-
Anthracene	mg/Kg	50.00	-	-	-	0.09 J	0.05 J	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	-	-	**0.40** J	0.19 J	-	-	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	-	-	**0.30** J	**0.16** J	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-	0.29 J	0.22 J	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	-	0.13 J	0.09 J	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-	0.29 J	0.14 J	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	-	-	-	0.08 JN	-	-
Carbazole	mg/Kg		-	-	-	0.09 J	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-	-	R	R	R	R
Chrysene	mg/Kg	0.40	-	-	-	**0.58** J	0.26 J	0.12 J	-	-
Di-n-butylphthalate	mg/Kg	8.10	-	-	-	-	-	0.18 J	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	-	-	-	-	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-	0.05 J	-	-	-	-
1,4-Dichlorobenzene	mg/Kg		-	-	-	-	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-	-	-	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-	-	-	-	-	-
Fluoranthene	mg/Kg	50.00	-	-	-	0.84 J	0.39 J	0.15 J	-	-
Fluorene	mg/Kg	50.00	-	-	-	0.06 J	-	-	-	-
Hexachlorocyclopentadiene	mg/Kg		-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	-	0.15 J	0.09 J	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	-	-	-	-	-	-
4-Methylphenol	mg/Kg	0.90	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/Kg		-	-	-	-	-	1.40	-	-
Naphthalene	mg/Kg	13.00	-	-	-	0.05 J	-	-	-	-
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-	-	-	-	-	-
Phenanthrene	mg/Kg	50.00	-	-	-	0.65 J	0.32 J	0.54	-	-
Phenol	mg/Kg	0.03/MDL	-	-	**0.25** J	-	-	-	-	-
Pyrene	mg/Kg	50.00	-	-	-	0.75 J	0.31 J	0.16 J	-	-
1,2,4-Trichlorobenzene	mg/Kg		-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	-	-	1.50	-	-	1.30	-	-

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP3601 2' 3076801 NYTEST SHD2 SOIL 3/12/97 7/25/97	TP3602 3' 3076802 NYTEST SHD2 SOIL 3/12/97 7/25/97	TP3801 2' 3078701 NYTEST SHD3 SOIL 3/13/97 7/25/97	TP3901 1' 3079701 NYTEST SHD3 SOIL 3/17/97 7/25/97	DUP of TP3901 TP3911 1' 3079704 NYTEST SHD3 SOIL 3/17/97 7/25/97	TP4001 4' 3079705 NYTEST SHD3 SOIL 3/17/97 7/25/97	TP4301 6' 3082302 NYTEST SHD3 SOIL 3/18/97 7/25/97	TP4601 2' 3082303 NYTEST SHD3 SOIL 3/19/97 7/25/97
COMPOUND	UNITS:									
PESTICIDES/PCBs										
alpha-BHC	mg/Kg	0.11	-	-	-	-	-	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-	-	-	-	-	-
beta-BHC	mg/Kg	0.20	-	-	-	-	-	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-	-	-	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	-	-	-	-	-	-
Aldrin	mg/Kg	0.04	-	-	-	-	-	-	-	-
4,4'-DDD	mg/Kg	2.90	-	-	-	-	-	-	-	-
4,4'-DDE	mg/Kg	2.10	-	-	-	0.00 JN	0.00 J	-	-	-
4,4'-DDT	mg/Kg	2.10	-	-	.0033 J	0.02 JN	0.02 J	0.01 J	-	-
Dieldrin	mg/Kg	0.04	-	-	-	-	-	-	-	-
Endosulfan I	mg/Kg	0.90	-	-	-	-	-	-	-	-
Endosulfan II	mg/Kg	0.90	-	-	-	-	-	-	-	-
Endosulfan sulfate	mg/Kg	1.00	-	-	-	-	-	-	-	-
Endrin	mg/Kg	0.10	-	-	-	-	-	-	-	-
Endrin aldehyde	mg/Kg		-	-	-	-	-	-	-	-
Endrin ketone	mg/Kg		-	-	-	0.00 J	-	-	-	-
Heptachlor	mg/Kg	0.10	-	-	-	-	-	0.00 J	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-	-	-	-	-	-
Methoxychlor	mg/Kg		-	-	-	-	-	-	-	-
Toxaphene	mg/Kg		-	-	-	-	-	-	-	-
Aroclor-1016	mg/Kg	01/10	-	-	-	-	-	-	-	-
Aroclor-1221	mg/Kg	01/10	-	-	-	-	-	-	-	-
Aroclor-1232	mg/Kg	01/10	-	-	-	-	-	-	-	-
Aroclor-1242	mg/Kg	01/10	-	-	-	-	-	-	-	-
Aroclor-1248	mg/Kg	01/10	-	-	-	-	-	-	-	-
Aroclor-1254	mg/Kg	01/10	-	-	-	0.04	0.03 J	-	-	-
Aroclor-1260	mg/Kg	01/10	-	-	0.03 J	-	-	-	-	-
INORGANICS										
Aluminum	mg/Kg	SB(33,000)	15700.00	12800.00	9960.00	11500.00 J	395.00 J	10500.00	14500.00	16200.00
Antimony	mg/Kg	SB	2.10 J	2.00 J	1.70 J	1.80 J	21.90 J	2.60 J	2.00 J	2.50 J
Arsenic	mg/Kg	7.5/SB(3-12)	7.80	7.10	7.90 J	10.90 J	6.50	8.20	6.00	6.70
Barium	mg/Kg	300/SB(15-600)	77.70	83.30	155.00	298.00 J	12.70 J	109.00	117.00	131.00
Beryllium	mg/Kg	0.16/SB(0-1.75)	0.46 J	0.41 J	0.43 J	0.37 J	-	0.32 J	0.45 J	0.50 J
Cadmium	mg/Kg	1/SB(0.01-1)	-	-	-	**1.80** J	-	0.39 J	-	-
Calcium	mg/Kg	SB(13-35,000)	688.00	735.00	1220.00	11500.00 J	3900.00 J	1250.00	924.00	1030.00
Chromium	mg/Kg	10/SB(1.5-40)	21.20	18.00	13.40 J	19.00 J	**435.00** J	15.20 J	27.30 J	30.50 J
Cobalt	mg/Kg	30/SB(2.5-60)	13.00	10.30	8.70 J	9.80 J	3.90 J	9.60 J	12.60 J	14.00 J
Copper	mg/Kg	25/SB(1-50)	17.60	17.60	17.30 J	**87.00** J	12.50 J	24.20 J	11.80 J	13.30 J
Iron	mg/Kg	000/SB(2,000-500,000)	85300.00 J	25800.00 J	22900.00	24900.00 J	6350.00 J	27900.00	26800.00	29900.00
Lead	mg/Kg	SB(14)	7.50	10.80	9.30	**700.00** J	**14.60** J	**52.10**	8.40	9.50
Magnesium	mg/Kg	SB(100-5,000)	**5600.00**	4090.00	3420.00	4070.00 J	461.00 J	3270.00	3910.00	4360.00
Manganese	mg/Kg	SB(50-5,000)	529.00	493.00	692	646.00 J	2610.00 J	477.00	1330.00 J	1480.00
Mercury	mg/Kg	0.10	-	-	-	**0.20**	**0.18**	-	-	-
Nickel	mg/Kg	13/SB(0.5-25)	**30.10**	23.70	22.50	**25.90** J	**194.00** J	**36.40**	24.60	**27.30**
Potassium	mg/Kg	SB(8,500-43,000)	1780.00	1790.00	1290.00	1190.00 J	535.00 J	1260.00	1320.00	1470.00
Selenium	mg/Kg	2/SB(0.1-3.9)	-	-	-	-	-	-	-	-
Silver	mg/Kg	SB	-	-	-	0.73 J	3.30 J	-	-	-
Sodium	mg/Kg	SB(6,000-8,000)	185.00 J	200.00 J	345.00 J	664.00 J	-	684.00 J	457.00 J	475.00 J
Thallium	mg/Kg	SB	-	-	0.72 J	0.84 J	-	-	2.10 J	1.40 J
Vanadium	mg/Kg	150/SB(1-300)	20.30	18.00	14.1	30.20 J	10.10 J	16.00	21.10	23.60
Zinc	mg/Kg	20/SB(9-50)	**62.10**	**54.10**	**50.70**	**1060.00** J	28.10 J	**1270.00**	**70.50**	**78.60**
Total Cyanide	mg/Kg		-	-	-	3.01 J	0.84 J	1.34	-	-

SOUTH HILL DUMP SITE VALIDATED TEST PIT SOIL/FILL SAMPLE RESULTS DETECTED COMPOUND SUMMAR	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046* & TCLP	TP3601 2' 3076801 NYTEST SHD2 SOIL 3/12/97 7/25/97	TP3602 3' 3076802 NYTEST SHD2 SOIL 3/12/97 7/25/97	TP3801 2' 3078701 NYTEST SHD3 SOIL 3/13/97 7/25/97	TP3901 1' 3079701 NYTEST SHD3 SOIL 3/17/97 7/25/97	DUP of TP3901 TP3911 1' 3079704 NYTEST SHD3 SOIL 3/17/97 7/25/97	TP4001 4' 3079705 NYTEST SHD3 SOIL 3/17/97 7/25/97	TP4301 6' 3082302 NYTEST SHD3 SOIL 3/18/97 7/25/97	TP4601 2' 3082303 NYTEST SHD3 SOIL 3/19/97 7/25/97
COMPOUND										
TCLP VOLATILES										
Tetrachloroethene	mg/L	0.70								
Trichloroethene	mg/L	0.50								
TCLP SEMIVOLATILES										
3+4-Methylphenol	mg/L									
TCLP PESTICIDES										
NONE	mg/L									
TCLP HERBICIDES										
NONE	mg/L									
TCLP METALS										
Arsenic	mg/L	5.00								
Barium	mg/L	100.00								
Cadmium	mg/L	1.00								
Lead	mg/L	5.00								
Silver	mg/L	5.00								

* Numbers in parentheses represent average background concentrations for Eastern US soils. Site Background (SB) information is not available.

TABLE 4

SOIL BORING ANALYTICAL DATA SUMMARY

SOUTH HILL DUMP SITE VALIDATED SOIL BORING RESULTS DETECTED COMPOUND SUMMARY	SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046	MW2N 20-28' 3091101 NYTEST SHD5 SOIL 3/28/97 7/25/97	MW3E 2-8' 3096801 NYTEST SHD6 SOIL 4/03/97 7/25/97	DUP of MW3E MW3D 2-8' 3096804 NYTEST SHD6 SOIL 4/03/97 7/25/97	MW4C 4-6' 3093901 NYTEST SHD5 SOIL 3/31/97 7/25/97	MW4J 16-20' 3093902 NYTEST SHD5 SOIL 3/31/97 7/25/97
COMPOUND	UNITS:						
VOLATILES							
1,2-Dichloroethene (total)	mg/Kg	0.3	-	0.002 J	0.002 J	-	-
Methylene Chloride	mg/Kg	0.1	-	-	-	0.007 J	0.008 J
Trichloroethene	mg/Kg	0.7	-	0.028 J	0.021 J	-	-
SEMIVOLATILES							
bis(2-Ethylhexyl)phthalate	mg/Kg	50	0.079 J	0.1 J	0.058 J	R	R
PESTICIDES/PCBs							
Methoxychlor	mg/Kg		-	-	-	-	-
INORGANICS							
Aluminum	mg/Kg	SB(33,000)	17900	12600 J	4880 J	14400	11800
Antimony	mg/Kg	SB	1.8 J	2 J	1.6 J	2 J	0.55 J
Arsenic	mg/Kg	7.5/SB(3-12)	10.6 J	7.8 J	1.9 J	9.6 J	6.6 J
Barium	mg/Kg	300/SB(15-600)	163 J	160 J	24.9 J	95.8 J	87 J
Beryllium	mg/Kg	0.16/SB(0-1.75)	0.73	0.47 J	0.38 J	0.57	0.46 J
Calcium	mg/Kg	SB(13-35,000)	5510 J	1590 J	1540 J	1490 J	22200 J
Chromium	mg/Kg	10/SB(1.5-40)	24.1 J	17.2 J	11.2 J	19.4 J	15.8 J
Cobalt	mg/Kg	30/SB(2.5-60)	16.8 J	10.8 J	4.3 J	13.1 J	10.8 J
Copper	mg/Kg	25/SB(1-50)	23.2	20 J	7.9 J	20.2	17.9
Iron	mg/Kg	2000/SB(2000-500,000)	40000 J	27200	19500	31100 J	25300 J
Lead	mg/Kg	SB(14)	**16.6**	**17.3** J	4.1 J	10.8	9.4
Magnesium	mg/Kg	SB(100-5,000)	**7000** J	4130 J	2040 J	**5140** J	**7650** J
Manganese	mg/Kg	SB(50-5,000)	584 J	616 J	97.3 J	586 J	504 J
Mercury	mg/Kg	0.1	-	-	0.05 J	-	0.06 J
Nickel	mg/Kg	13/SB(0.5-25)	**37.6** J	**25.4** J	7.9 J	**31.3** J	**25.5** J
Potassium	mg/Kg	SB(8,500-43,000)	2220	1720	1130	1470	1550
Sodium	mg/Kg	SB(6,000-8,000)	146 J	298 J	293 J	77.5 J	145 J
Thallium	mg/Kg	SB	-	-	-	0.77 J	-
Vanadium	mg/Kg	150/SB(1-300)	24 J	18.4 J	20.2 J	19.5 J	16.1 J
Zinc	mg/Kg	20/SB(9-50)	**83.9** J	**87.2** J	24.6 J	**70** J	**57.6** J
Total Cyanide	mg/Kg		-	-	-	2.23	-

SOUTH HILL DUMP SITE
VALIDATED SOIL BORING RESULTS
DETECTED COMPOUND SUMMARY

COMPOUND	SAMPLE ID: / DEPTH: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / VALIDATED:	UNITS:	CLEAN-UP OBJECTIVE TAGM No. HWR-94-4046	MW1B 2-4' 3090501 NYTEST SHD5 SOIL 3/26/97 7/25/97	MW1E 6-10' 3090502 NYTEST SHD5 SOIL 3/26/97 7/25/97	MW2B 2-4' 3090503 NYTEST SHD5 SOIL 3/27/97 7/25/97	MW2G 10-14' 3090504 NYTEST SHD5 SOIL 3/27/97 7/25/97
VOLATILES							
1,2-Dichloroethene (total)		mg/Kg	0.3	-	-	-	-
Methylene Chloride		mg/Kg	0.1	0.004 J	0.004 J	0.004 J	0.004 J
Trichloroethene		mg/Kg	0.7	-	-	-	-
SEMIVOLATILES							
bis(2-Ethylhexyl)phthalate		mg/Kg	50	0.23 J	0.077 J	-	-
PESTICIDES/PCBs							
Methoxychlor		mg/Kg		-	0.014 J	-	-
INORGANICS							
Aluminum		mg/Kg	SB(33,000)	17400	15000	15000	13100
Antimony		mg/Kg	SB	1.7 J	1.5 J	1.7 J	0.98 J
Arsenic		mg/Kg	7.5/SB(3-12)	8.9	6.9	8	7.9
Barium		mg/Kg	300/SB(15-600)	46.6 J	133 J	59.6 J	99.2 J
Beryllium		mg/Kg	0.16/SB(0-1.75)	0.65	0.55	0.56	0.55
Calcium		mg/Kg	SB(13-35,000)	1000 J	1270 J	782 J	50300 J
Chromium		mg/Kg	10/SB(1.5-40)	22.3 J	21.4 J	20.5 J	17.6 J
Cobalt		mg/Kg	30/SB(2.5-60)	15.5 J	16 J	13.6 J	11.3 J
Copper		mg/Kg	25/SB(1-50)	20	18.2	19	18.3
Iron		mg/Kg	2000/SB(2000-500,000)	33900 J	33200 J	29400 J	29200 J
Lead		mg/Kg	SB(14)	**22.9**	5.7	9.2	9.5
Magnesium		mg/Kg	SB(100-5,000)	**6020** J	**6150** J	**5490** J	**9070** J
Manganese		mg/Kg	SB(50-5,000)	836 J	1000 J	547 J	675 J
Mercury		mg/Kg	0.1	-	-	-	-
Nickel		mg/Kg	13/SB(0.5-25)	**35.5** J	**33.5** J	**31.4** J	**26.6** J
Potassium		mg/Kg	SB(8,500-43,000)	1290	1250	1140	1970
Sodium		mg/Kg	SB(6,000-8,000)	167 J	-	121 J	181 J
Thallium		mg/Kg	SB	-	-	0.97 J	-
Vanadium		mg/Kg	150/SB(1-300)	21.3 J	19.4 J	19.4 J	18.2 J
Zinc		mg/Kg	20/SB(9-50)	**73.5** J	**65** J	**68.1** J	**57.7** J
Total Cyanide		mg/Kg		-	-	-	-

Table 1.1: Test Pit Investigation Summary

TEST PIT	PID READING (NOTE 1)	BOTTOM OF FILL (FT BGS)	DRUMS ENCOUNTERED	STAINS OBSERVED	OTHER	ADDITIONAL DRUMS SUSPECTED (Yes/No)	SAMPLES COLLECTED	DEPTH TO GROUNDWATER (FT)	SAMPLES FROM BENEATH WT (Yes/No)	SAMPLE RESULTS (see Note 2)
TP-1	0 ppm	7.5	Drum fragments	Black stained area approx. 15 feet from west edge of trench		No, native soil encountered	TP-01-01 from stained area 17 feet west of end of trench and 5 feet deep	NE	No	SVOCs, primarily PAHs above SCGs.
TP-2	--	17	No	No		No, native soil encountered	No	NE	No	NS
TP-3	29 ppm	8	Crushed w/ 1 intact	No		No, native soil encountered	TP-03-01 soil below excavated drum 20 feet from top of slope and 3 feet deep	NE	No	PAHs above SCGs.
TP-4	No elevated readings	11	Corroded drum, crushed and corroded carcasses, and open drum 15 feet from base of slope	No, burn zones only		No, native soil encountered	No	NE	No	NS
TP-5	--	unknown, slope unstable at 11 feet	No	No, burn zones only		Possibly - native soil not encountered	TP-05-01 from burn area 20 fet from west end of trench and 4 feet deep	NE	No	No concentrations above SCGs. Elevated aroclor 1260 concentration (2.8 mg/kg).
TP-6	--	5	No	No		No, native soil encountered	No	NE	No	NS
TP-7	0.5 ppm	15	No	No, burn zones only		No, native soil encountered	TP-07-01 from stained area 5 feet from south end of trench and 8 feet deep	NE	No	No concentrations above SCGs.
TP-8	--	13	No	No, burn zones only	Fuel oil odor	No, native soil encountered	TP-08-01 from ash with hydrocarbon odor 2 feet deep from east end of trench	NE	No	No concentrations above SCGs. Elevated phenanthrene concentration (5.3 mg/kg).
TP-9	--	11	No	No		No, native soil encountered	No	NE	No	NS
TP-10	--	unknown, slope unstable at 15 feet	No	No		Possibly - native soil not encountered	TP-10-01 near rubber caps 15 feet from south end of trench and 15 feet deep	NE	No	No concentrations above SCGs. Elevated butylbenzylphthalate concentration (4.1 mg/kg).
TP-11	1.0 ppm	unknown, slope unstable at 17 feet	Crushed drums and corroded drum fragments	Yes, near drum		Possibly - native soil not encountered	TP-11-01 stained area near crushed drum 20 feet from north end, 12 feet deep; TP-11-02 from gray-blue clay 3 feet from north end of trench and 4 feet deep	NE	No	SVOCs, including one PAH above SCGs.
TP-12	2.7 ppm	unknown, slope unstable at 17 feet	Crushed drums encountered	No, burn zones only	Slight sheen	Yes, drums near trench termination depth	TP-12-01(DUP TP-12-11) stained soil from center of trench 17 feet deep	NE	No	One PAH above SCGs.
TP-13	5.0 ppm	unknown, slope unstable at 16 feet	Crushed drum	No		Possibly - native soil not encountered	No	NE	No	NS
TP-14	0.8 ppm	21, bedrock at 21 feet	Flattened drum	No	Water at 14 feet	No, bedrock encountered	No	14	No	NS
TP-15	--	17	No	No		No, native soil encountered	No	NE	No	NS
TP-16	8 ppm	17, bedrock at 17 feet	Sheared drum with resin and fibers, crushed drum with orange-rust colored soil and glue odor	No	Water at 17 feet	No, bedrock encountered	TP-16-01 resin and fibers near crushed drum 5 feet from south end, 5 feet deep; TP-16-02 from crushed drum 12 feet from south end of trench, 8 feet deep	17	No	One PAH above SCGs. Concentration of 2-methylnaphthalene slightly below SCG value.
TP-17	--	15, bedrock at 17 feet	No	No	Water at 17 feet	No, bedrock encountered	No	17	No	NS

Table 1.1: Test Pit Investigation Summary

TEST PIT	PID READING (NOTE 1)	BOTTOM OF FILL (FT BGS)	DRUMS ENCOUNTERED	STAINS OBSERVED	OTHER	ADDITIONAL DRUMS SUSPECTED (Yes/No)	SAMPLES COLLECTED	DEPTH TO GROUNDWATER (FT)	SAMPLES FROM BENEATH WT (Yes/No)	SAMPLE RESULTS (see Note 2)
TP-18	26 ppm	18, bedrock at 19 feet	1 Crushed w/ soil staining	Yes, near drum	Water at 19 feet	No, bedrock encountered	TP-18-01 adjacent to flattened drum 8 feet deep and 24 feet from east end of trench	19	No	SVOCs, including one PAH above SCGs. Elevated bis(2-ethylhexyl)phthalate concentration.
TP-19	31 ppm	13, bedrock at 15 feet	Burned & crushed drum 30 feet, crushed drum 51 feet, & fragments 42 from east end	No, soil in burned area is rust colored		No, bedrock encountered	TP-19-01 near crushed drum 42 feet from east end, 10 feet deep; TP-19-02 near crushed drum 51 feet from east end, 10 feet deep.	NE	No	Low concentrations detected, primarily VOCs.
TP-20	124 ppm	15	Four crushed drums 48 feet from south end, two drums empty, one left undisturbed in bank, fourth contained dark gray-black fine shavings, all located approx 1 foot below grade; a fifth crushed drum 40 feet from south end, contains gray sandy material, slightly cemented, located 4 feet below grade	No, burn zone at southern end		Yes, drum left in-place	DS-20-01 from drum 40 feet from south end, 4 feet deep; DS-20-02 from drum in nest 48 feet from south end, 1 foot deep	NE	No	VOCs, PAHs, pesticides, and PCBs detected.
TP-21	10.8 ppm	unknown, trench terminated at 5 feet, no explanation	Crushed drum empty at north end, three crushed drums at south end, two lef undisturbed, third intact with label "__NT "Wilmington Delaware". Third drum opened, contained approx 2 inches black oily substance	No		Yes - trench terminated at 5 feet	TP-21-01 soil below drum nest at south end of trench, 3 feet deep; TP-21-D1 from overpacked drum	NE	No	Low concentrations detected, primarily SVOCs. In drum, elevated concentrations of TCE, methylene chloride, phenanthrene, 2,4,5-trichlorophenol, and bis(2-ethylhexyl)phthalate.
TP-22	--	3, bedrock at 7 feet	No	No		No, bedrock encountered	No	NE	No	NS
TP-23	--	4, bedrock 7 feet	No	No		No, bedrock encountered	No	NE	No	NS
TP-24	30.2 ppm	13, bedrock at 14 feet	1 Corroded - overpacked	No		No, bedrock encountered	TP-24-01 resin from crushed drum at east end, 4 feet deep	NE	No	
TP-25	3 ppm	14, bedrock at 14 feet	1 Crushed, empty	No	Water at 14 feet	No, bedrock encountered	No	14	No	NS
TP-26	0 ppm	4, bedrock at 8 feet	No	No	2 to 3 foot diameter white-tan resin fragment	No, bedrock encountered	No	NE	No	NS
TP-27	--	14	No	No		No, native soil encountered	TP-27-01(DUP TP-27-11) burned fill from wall of slope 10 feet deep	NE	No	Low concentrations detected, primarily pests/PCBs
TP-28	--	5, bedrock at 8 feet	No	No		No, bedrock encountered	No	NE	No	NS
TP-29	--	9, bedrock at 10 feet	No	No		No, bedrock encountered	No	NE	No	NS
TP-30	0 ppm	4, bedrock at 7 feet	No	black residue on soil at 4 feet below grade	pungent odor at 4 feet below grade	No, bedrock encountered	TP-30-01 stained area from center of trench 4 feet deep	NE	No	No concentrations above SCGs. Elevated bis(2-Ethylhexyl)phthalate concentration.
TP-31	--	20	No	No		No, native soil encountered	No	NE	No	NS

Table 1.1: Test Pit Investigation Summary

TEST PIT	PID READING (NOTE 1)	BOTTOM OF FILL (FT BGS)	DRUMS ENCOUNTERED	STAINS OBSERVED	OTHER	ADDITIONAL DRUMS SUSPECTED (Yes/No)	SAMPLES COLLECTED	DEPTH TO GROUNDWATER (FT)	SAMPLES FROM BENEATH WT (Yes/No)	SAMPLE RESULTS (see Note 2)
TP-32	0 ppm	3	3 Crushed, empty at 15, 32, & 45 ft from east end	Gray green residue 1 foot deep at east end of trench		No, native soil encountered	TP-32-01 gray-green residue from east end of trench, 1 foot deep	NE	No	No concentrations above SCGs. Elevated Aroclor 1248 concentration (4 mg/kg).
TP-33	--	1 to 4	Several crushed, most empty, some contain yellow paint residue	No		No, native soil encountered	No	NE	No	NS
TP-34	--	no fill, bedrock at 8 feet	No	No	wet at 6 feet	No, native soil encountered	No	possibly 6	No	NS
TP-35	--	no fill, bedrock at 4 feet	No	No		No, native soil encountered	No	NE	No	NS
TP-36	96 ppm	varies 0 to 3	1 Crushed, empty	No		No, native soil encountered	TP-36-01 soil beneath crushed drum on east portion of trench, 2 feet deep; TP-36-02 from soil at west end of trench, 3 feet deep	NE	No	Only a low concentration of methylene chloride detected, both samples.
TP-37	--	varies 1 to 2	Multiple drums on ground at west and at east end	No		No, native soil encountered	No	NE	No	NS
TP-38	57 ppm, LEL 1% on drum contents	3	Mult. drums on surface	No	wet at 5 feet, fuel odor at 3 feet	No, native soil encountered	TP-38-01 soil from 2 feet deep; TP-38-D1 from overpacked drum	possibly 5	No	Phenol above SCGs in soil. In drum sample, phenol not detected, low concentrations of VOCs, and elevated xylene, 4-methyl-2-pentanone and bis(2-ethylhexyl)phthalate (60,000 mg/kg).
TP-39	--	2	Carcasses at and just below ground surface	No		No, native soil encountered	TP-39-01(DUPTP-39-11) soil from beneath empty drums, 1 foot deep	NE	No	Several PAHs above SCGs.
TP-40	0 ppm	5	Crushed drums & fragments	No, NAPL encountered entering trench from north		Possibly - NAPL reportedly encountered entering trench from the north	TP-40-01 soil below seep at north portion of trench, 4 feet deep; TP-40-W aqeous sample from seep at north end of trench; TP-40-SEEP from drainage into swale downstream of TP-40; additional aqueous samples collected from trench by Buck Labs for waste disposal characterization	4 to 5	Yes	No concentrations elevated or above SCGs in soil. Elevated benzene, 1,2-DCE, TCE, toluene, and vinyl chloride detected in aqueous samples.
TP-41	0 ppm	4	2 Leaking and 1 empty at 1 foot; contents maroon-colored solid mixed with metal typerwriter pieces	No	water at 7 feet	No, native soil encountered	TP-41-01 composite sample of 2 leaking drums; TP-41-D1 (DUP TP-41-DR1) from overpacked drum	7	No	Elevated 2,4,5-trichlorophenol.
TP-42	2.5 ppm	4	No	No		No, native soil encountered	No	NE	No	NS
TP-43	--	6 in southwest, 0 in northeast	No	No		No, native soil encountered	TP-43-01 gray till 6 feet deep	NE	No	No concentrations elevated or above SCGs in soil.
TP-44	--	0 to 1	No	No		No, native soil encountered	No	NE	No	NS

Table 1.1: Test Pit Investigation Summary

TEST PIT	PID READING (NOTE 1)	BOTTOM OF FILL (FT BGS)	DRUMS ENCOUNTERED	STAINS OBSERVED	OTHER	ADDITIONAL DRUMS SUSPECTED (Yes/No)	SAMPLES COLLECTED	DEPTH TO GROUNDWATER (FT)	SAMPLES FROM BENEATH WT (Yes/No)	SAMPLE RESULTS (see Note 2)
TP-45	0 ppm	unknown, no subsurface excavation	Eleven total drums encountered at surface, four drums with following contents; first half-full, oil-like contents, second one-thrid full, oil-like contents, third less than one-quarter full, oil-like contents, and fourth containing ash; remaining drums empty	No		Possibly - No subsurface excavation	TP-45-D1 from overpacked drum; TP-45-D2 from overpacked drum	NE	No	Several elevated SVOCs, acid test yielded elevated aroclor 1254.
TP-46	2 ppm	1.5 to 2	1 empty crushed drum	No		No, native soil encountered	TP-46-01 gray silt clay at north end of trench 2 feet deep	NE	No	Low concentrations of several VOCs.
TP-47	--	No fill	No	Possible reddish stain at surface		No, native soil encountered	No	NE	No	NS
TP-48	--	1	2 Drum lids	Occassionally red stained near surface	water at between 3 and 5 feet	No, native soil encountered	No	3 to 5	No	NS
TP-49	--	1.5	No	Black and red stained organics	water at 3.5 feet	Possibly - native soil not encountered	No	3.5	No	NS
TP-50	--	unknown, trench terminated at 5 feet, no explanation	No	No	water and oil encountered near surface, oil recovered with pads	Possibly - native soil not encountered, oil encountered	No	possibly less than 5	No	NS

Notes:
1. PID reading presented is the highest observed for that location.
2. Concentrations of inorganics exceed SCGs at all test pit locations.
Only organic analyte results are discussed.
-- = not indicated
NS = not sampled
NE = not encountered
ppm = parts per million
FT = feet
FT BGS = feet below ground surface
WT = water table
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
PAHs = polyaromatic hydrocarbons
pests = pesticides

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Table 1.2: Determination of Recommended Soil Cleanup Objectives for Organic Contaminants

COMPOUND	UNITS:	SOIL CLEANUP OBJECTIVE TO PROTECT GW QUALITY (see Note 1)	USEPA HEALTH BASED CARCIN-OGENS	USEPA HEALTH BASED SYSTEMIC TOXICANTS	CRQL (see Note 2)	RECOMMENDED SOIL CLEAN-UP OBJECTIVE (see Note 3)
VOLATILES*						
Acetone	mg/Kg	0.11	N/A	8000	0.01	0.2
Benzene	mg/Kg	0.06	24	N/A	0.005	0.1
2-Butanone	mg/Kg	0.3	N/A	4000	0.01	0.3
Chlorobenzene	mg/Kg	1.7	N/A	2000	0.005	1.7
1,2-Dichloroethene (total)	mg/Kg	0.3	N/A	2000	0.005	0.3
Ethylbenzene	mg/Kg	5.5	N/A	8000	0.005	5.5
4-Methyl-2-Pentanone	mg/Kg	1	N/A	N/A	0.01	1
Methylene Chloride	mg/Kg	0.1	93	5000	0.005	0.1
Tetrachloroethene	mg/Kg	1.4	14	800	0.005	1.4
Toluene	mg/Kg	1.5	N/A	20000	0.005	1.5
Trichloroethene	mg/Kg	0.7	64	N/A	0.005	0.7
Vinyl Chloride	mg/Kg	0.12	N/A	N/A	0.01	0.2
Xylene (total)	mg/Kg	1.2	N/A	200000	N/A	1.2
SEMIVOLATILES*						
Acenaphthene	mg/Kg	90	N/A	5000	0.33	50
Acenaphthylene	mg/Kg	41	N/A	N/A	0.33	41
Anthracene	mg/Kg	700	N/A	20000	0.33	50
Benzo(a)anthracene	mg/Kg	3	0.224	N/A	0.33	0.224/MDL
Benzo(a)pyrene	mg/Kg	11	0.0609	N/A	0.33	0.061/MDL
Benzo(b)fluoranthene	mg/Kg	1.1	N/A	N/A	0.33	1.1
Benzo(g,h,i)perylene	mg/Kg	8000	N/A	N/A	0.33	50
Benzo(k)fluoranthene	mg/Kg	1.1	N/A	N/A	0.33	1.1
bis(2-Ethylhexyl)phthalate	mg/Kg	435	50	2000	0.33	50
Butylbenzylphthalate	mg/Kg	122	N/A	20000	0.33	50.00
Carbazole	mg/Kg	N/A	N/A	N/A	N/A	N/A
4-Chloroaniline	mg/Kg	0.22	200	300	0.33	0.220/MDL
Chrysene	mg/Kg	0.4	N/A	N/A	0.33	0.4
Di-n-butylphthalate	mg/Kg	8.1	N/A	8000	0.33	8.1
Di-n-octylphthalate	mg/Kg	120	N/A	2000	0.33	50
Dibenzofuran	mg/Kg	6.2	N/A	N/A	0.33	6.2
1,4-Dichlorobenzene	mg/Kg	N/A	N/A	N/A	N	N/A
Diethylphthalate	mg/Kg	7.1	N/A	60000	0.33	7.1
Dimethylphthalate	mg/Kg	2	N/A	80000	0.33	2
2,6-Dinitrotoluene	mg/Kg	1	1.03	N/A	0.33	1
Fluoranthene	mg/Kg	1900	N/A	3000	0.33	50
Fluorene	mg/Kg	350	N/A	3000	0.33	50
Hexachlorocyclopentadiene	mg/Kg	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	mg/Kg	3.2	N/A	N/A	0.33	3.2
2-Methylnaphthalene	mg/Kg	36.4	N/A	N/A	0.33	36.4
4-Methylphenol	mg/Kg	0.9	N/A	4000	0.33	0.9
N-Nitrosodiphenylamine	mg/Kg	N/A	N/A	N/A	N/A	N/A
Naphthalene	mg/Kg	13	N/A	300	0.33	13
Pentachlorophenol	mg/Kg	1	N/A	2000	1.6	1.0/MDL

Table 1.2: Determination of Recommended Soil Cleanup Objectives for Organic Contaminants

COMPOUND	UNITS:	SOIL CLEANUP OBJECTIVE TO PROTECT GW QUALITY (see Note 1)	USEPA HEALTH BASED CARCIN-OGENS	USEPA HEALTH BASED SYSTEMIC TOXICANTS	CRQL (see Note 2)	RECOMMENDED SOIL CLEAN-UP OBJECTIVE (see Note 3)
Phenanthrene	mg/Kg	220	N/A	N/A	0.33	50
Phenol	mg/Kg	0.03	N/A	50000	0.33	0.03/MDL
Pyrene	mg/Kg	665	N/A	2000	0.33	50
1,2,4-Trichlorobenzene	mg/Kg	N/A	N/A	N/A	N/A	N/A
bis(2-Ethylhexyl)phthalate	mg/Kg	435	50	2000	0.33	50
PESTICIDES/PCBs*						
alpha-BHC	mg/Kg	0.2	0.111	N/A	0.008	0.11
alpha-Chlordane***	mg/Kg	2	0.54	50	0.08	0.54
beta-BHC	mg/Kg	0.2	3.89	N/A	0.008	0.20
delta-BHC	mg/Kg	0.3	N/A	N/A	0.008	0.30
gamma-BHC (Lindane)	mg/Kg	0.06	5.4	20	0.008	0.06
gamma-Chlordane	mg/Kg	14	0.54	5	0.08	0.54
Aldrin	mg/Kg	9.6	0.041	2	0.008	0.041
4,4'-DDD	mg/Kg	7.7	2.9	N/A	0.016	2.9
4,4'-DDE	mg/Kg	4.4	2.1	N/A	0.016	2.1
4,4'-DDT	mg/Kg	2.5	2.1	40	0.016	2.1
Dieldrin	mg/Kg	0.1	0.044	4	0.016	0.044
Endosulfan I	mg/Kg	0.9	N/A	N/A	0.016	0.9
Endosulfan II	mg/Kg	0.9	N/A	N/A	0.016	0.9
Endosulfan sulfate	mg/Kg	1	N/A	N/A	0.016	1
Endrin	mg/Kg	0.1	N/A	20	0.008	0.10
Endrin aldehyde	mg/Kg	N/A	N/A	N/A	N/A	N/A
Endrin ketone	mg/Kg	N/A	N/A	N/A	N/A	N/A
Heptachlor	mg/Kg	0.1	0.16	40	0.008	0.1
Heptachlor epoxide	mg/Kg	0.002	0.077	0.8	0.008	0.02
Methoxychlor	mg/Kg	900	N/A	400	0.08	N/A
Toxaphene	mg/Kg	N/A	N/A	N/A	N/A	N/A
Aroclor-1016**	mg/Kg	10	1	N/A	0.16	1, 10
Aroclor-1221**	mg/Kg	10	1	N/A	0.161	1, 10
Aroclor-1232**	mg/Kg	10	1	N/A	0.162	1, 10
Aroclor-1242**	mg/Kg	10	1	N/A	0.163	1, 10
Aroclor-1248**	mg/Kg	10	1	N/A	0.164	1, 10
Aroclor-1254**	mg/Kg	10	1	N/A	0.165	1, 10
Aroclor-1260**	mg/Kg	10	1	N/A	0.166	1, 10
TCLP VOLATILES						
NONE	mg/L					
TCLP SEMIVOLATILES						
NONE	mg/L					
TCLP PESTICIDES						
NONE	mg/L					
TCLP HERBICIDES						
NONE	mg/L					

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Table 1.2: Determination of Recommended Soil Cleanup Objectives for Organic Contaminants

COMPOUND	UNITS:	SOIL CLEANUP OBJECTIVE TO PROTECT GW QUALITY (see Note 1)	USEPA HEALTH BASED CARCIN-OGENS	USEPA HEALTH BASED SYSTEMIC TOXICANTS	CRQL (see Note 2)	RECOMMENDED SOIL CLEAN-UP OBJECTIVE (see Note 3)

Notes:
1. Soil cleanup objective to protect groundwater quality according to TAGM 4046, 1994.
This value was calculated for 1% (5% for PCBs) soil organic carbon content, and should
be adjusted according to site-specific values.
2. Cleanup objective not to be less than CRQL.
3. Cleanup objective lesser of value to protect groundwater and health based values, unless otherwise specified in
TAGM 4046. TCLP criteria values from STARS Memo #1, 1992.
*Per TAGM 4046, total VOCs less than 10 ppm, individual SVOCs less than 50 ppm, total SVOCs less than 500 ppm,
total pesticides less than 10 ppm.
**PCB criteria 1 mg/kg surface soil, 10 mg/kg subsurface soil. No surface soils presented; data compared to value
of 10 mg/kg.
TCLP Criteria from Spill Technology and Remediation Series (STARS) Memo #1 Petroleum-Contaminated Soil
Guidance Policy.
*** chlordane criteria value used
CRQL = contract required quantitation limit
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not available

Table 1.3: Determination of Recommended Soil Cleanup Objectives for Inorganic Contaminants

COMPOUND	UNITS:	EASTERN US BACKGROUND (see Note 1)	CRDL (see Note 2)	SITE BACKGROUND (see Note 3)	RECOMMENDED SOIL CLEAN-UP OBJECTIVE (see Note 4)
INORGANICS					
Aluminum	mg/Kg	33,000	2	16200	SB
Antimony	mg/Kg	N/A	0.6	1.6	SB
Arsenic	mg/Kg	3-12**	0.1	7.9	7.5 or SB
Barium	mg/Kg	15-600	2	89.8	300 or SB
Beryllium	mg/Kg	0-1.75	0.05	0.6	0.16 (HEAST) or SB
Cadmium	mg/Kg	0.1-1	0.05	N/A	1 or SB
Calcium	mg/Kg	130-35000	50	1135	SB
Chromium	mg/Kg	1.5-40 **	0.1	21.85	10 or SB
Cobalt	mg/Kg	2.5-60 **	0.5	15.75	30 or SB
Copper	mg/Kg	1-50	0.25	19.1	25 or SB
Iron	mg/Kg	2000-550000	1	33550	2000 or SB
Lead	mg/Kg	****	0.03	14.3	SB
Magnesium	mg/Kg	100-5000	50	6085	SB
Manganese	mg/Kg	50-5000	0.15	918	SB
Mercury	mg/Kg	0.001-0.2	0.002	ND	0.1
Nickel	mg/Kg	0.5-25	0.4	34.5	13 or SB
Potassium	mg/Kg	8500-43000 **	50	1270	SB
Selenium	mg/Kg	0.1-3.9	0.05	N/A	2 or SB
Silver	mg/Kg	N/A	0.1	N/A	SB
Sodium	mg/Kg	6000-8000	50	167	SB
Thallium	mg/Kg	N/A	0.1	ND	SB
Vanadium	mg/Kg	1-300	0.5	20.35	150 or SB
Zinc	mg/Kg	9-50	0.2	69.25	20 or SB
Total Cyanide	mg/Kg	N/A	0.1	ND	***
TCLP METALS					
Arsenic	mg/L				5.00
Barium	mg/L				100.00
Cadmium	mg/L				1.00
Lead	mg/L				5.00
Silver	mg/L				5.00

Prepared/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Notes:
1. Represents average background concentrations for Eastern US soils.
** values represent New York State background
2. Recommended Soil Cleanup Objective not to be less than CRDL.
3. Site Background is average of results from samples MW-1B and MW-1E (refer to Table B.6)
4. Recommended Soil Cleanup Objectives from TAGM 4046, 1994. TCLP values from STARS Memo #1, 1992.
Recommended Soil Cleanup Objective is the higher of the values listed.
***site-specific forms of cyanide should be evaluated in determining cleanup objective
****background levels for lead vary widely, from 4-61 mg/kg for rural areas, to 200-500 mg/kg for urban
CRDL = contract required detection limit, which is approximately 10 times the CRDL for water.
HEAST = USEPA HEAST database value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not available
ND = not detected
SB = site background

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP0101	TP0301	TP0501
	DEPTH:	SOIL CLEAN-UP	5'	3'	4'
	LAB ID:	OBJECTIVE	3066701	3066702	3066703
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD1
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		2/26/97	2/27/97	2/27/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	-	-	-
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-
Ethylbenzene	mg/Kg	5.50	-	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	-
Tetrachloroethene	mg/Kg	1.40	-	-	-
Toluene	mg/Kg	1.50	-	-	-
Trichloroethene	mg/Kg	0.70	-	0.004 J	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	-	-	-
Total VOCs	mg/Kg	10.00	0.000	0.004	0.000
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	0.07 J	-
Acenaphthylene	mg/Kg	41.00	0.15 J	-	-
Anthracene	mg/Kg	50.00	0.20 J	0.23 J	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	0.76	0.40 J	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	0.78	0.32 J	-
Benzo(b)fluoranthene	mg/Kg	1.10	0.84	0.30 J	-
Benzo(g,h,i)perylene	mg/Kg	50.00	0.16 J	0.06 J	-
Benzo(k)fluoranthene	mg/Kg	1.10	0.70	0.30 J	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	-
Carbazole	mg/Kg	-	0.10 J	0.12 J	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	0.81	0.36 J	-
Di-n-butylphthalate	mg/Kg	8.10	-	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	2.20	1.20	-
Fluorene	mg/Kg	50.00	0.06 J	0.08 J	-
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	0.32 J	0.11 J	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	-
4-Methylphenol	mg/Kg	0.90	-	-	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	-	-

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP0101	TP0301	TP0501
	DEPTH:	SOIL CLEAN-UP	5'	3'	4'
	LAB ID:	OBJECTIVE	3066701	3066702	3066703
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD1
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		2/26/97	2/27/97	2/27/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	0.95	0.79	-
Phenol	mg/Kg	0.03/MDL	-	-	-
Pyrene	mg/Kg	50.00	1.00	0.52	-
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	3.40	5.20	0.26 J
Total SVOCs	mg/Kg	500.00	12.43	10.06	0.26
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	-
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	0.01	0.003 J	-
4,4'-DDE	mg/Kg	2.10	0.005 J	-	0.01 JN
4,4'-DDT	mg/Kg	2.10	0.003 JN	0.002 JN	0.003 JN
Dieldrin	mg/Kg	0.044	-	-	-
Endosulfan I	mg/Kg	0.90	-	-	0.002 JN
Endosulfan II	mg/Kg	0.90	-	-	0.07
Endosulfan sulfate	mg/Kg	1.00	-	-	-
Endrin	mg/Kg	0.10	-	-	-
Endrin aldehyde	mg/Kg	-	-	-	0.01 JN
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	-	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	0.03	-	0.03
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.05	0.00	0.12
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	-	-	-
Aroclor-1260	mg/Kg	1, 10	-	-	2.80
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP0101		TP0301		TP0501	
	DEPTH:	SOIL CLEAN-UP	5'		3'		4'	
	LAB ID:	OBJECTIVE	3066701		3066702		3066703	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD1		SHD1		SHD1	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		2/26/97		2/27/97		2/27/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	13500		12600		12100	
Antimony	mg/Kg	1.6	2.10	J	17.20		2.20	J
Arsenic	mg/Kg	7.9	9.20		18.90		5.80	
Barium	mg/Kg	300	181.00		528.00		138.00	
Beryllium	mg/Kg	0.6	0.70	J	0.42	J	0.45	J
Cadmium	mg/Kg	1	1.70		49.80		6.30	
Calcium	mg/Kg	1135	6520		15600		18700	
Chromium	mg/Kg	21.85	25.10		75.20		27.20	
Cobalt	mg/Kg	30	9.90		16.70		11.90	
Copper	mg/Kg	25	52.00		396.00		65.50	
Iron	mg/Kg	33550	28100		141000		28900	
Lead	mg/Kg	14.3	180.00		814.00		140.00	
Magnesium	mg/Kg	6085	3500		4830		4460	
Manganese	mg/Kg	918	790.00		945.00		654.00	
Mercury	mg/Kg	0.1	0.12	J	0.11	J	0.53	
Nickel	mg/Kg	34.5	24.20		62.10		35.10	
Potassium	mg/Kg	1270	1900.00		1330.00		1280.00	
Selenium	mg/Kg	2	1.00		0.92		-	
Silver	mg/Kg	N/A	0.49	J	7.00		1.00	J
Sodium	mg/Kg	167	389.00	J	611.00		374.00	J
Thallium	mg/Kg	ND	-		-		-	
Vanadium	mg/Kg	150	21.80		25.10		54.80	
Zinc	mg/Kg	69.25	396.00		1610.00		446.00	
Total Cyanide	mg/Kg	ND	-		-		-	
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.
Highlighted values exceed Recommended Soil Cleanup Objective
- = compound not detected
mg/L = milligrams per liter
J = Estimated value
N = tentatively identified compound
MDL = Method detection limit
R = Data Rejected
mg/kg = milligrams per kilogram
ND = not detected in background samples

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP0701	TP0801	TP1001
	DEPTH:	SOIL CLEAN-UP	8'	2'	15'
	LAB ID:	OBJECTIVE	3067401	3067402	3067403
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD1
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		2/28/97	2/28/97	2/28/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	-	-	-
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-
Ethylbenzene	mg/Kg	5.50	-	0.006 J	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	-
Tetrachloroethene	mg/Kg	1.40	0.004 J	-	-
Toluene	mg/Kg	1.50	-	-	-
Trichloroethene	mg/Kg	0.70	-	-	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	-	0.002 J	-
Total VOCs	mg/Kg	10.00	0.004	0.008	0.000
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	-	-
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	0.10 J	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	0.45 J	4.10 J
Carbazole	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	-	0.30 J	-
Di-n-butylphthalate	mg/Kg	8.10	-	1.00	0.41 J
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	0.31 J
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	0.05 J	0.90	0.10 J
Fluorene	mg/Kg	50.00	-	-	-
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	-	0.66 J	-
4-Methylphenol	mg/Kg	0.90	-	-	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	0.32 J	-

Table B.1: Test Pit Soil Sample Results

SAMPLE ID:		RECOMMENDED	TP0701	TP0801	TP1001
DEPTH:		SOIL CLEAN-UP	8'	2'	15'
LAB ID:		OBJECTIVE	3067401	3067402	3067403
SOURCE:		(see Note 1)	NYTEST	NYTEST	NYTEST
SDG:			SHD1	SHD1	SHD1
MATRIX:			SOIL	SOIL	SOIL
SAMPLED:			2/28/97	2/28/97	2/28/97
VALIDATED:			7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	0.05 J	5.30	0.09 J
Phenol	mg/Kg	0.03/MDL	-	-	-
Pyrene	mg/Kg	50.00	-	0.88	-
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	0.29 J	2.80	1.30 J
Total SVOCs	mg/Kg	500.00	0.38	12.71	6.31
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	0.02 JN
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	0.02 JN
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	-	-	0.06 JN
4,4'-DDE	mg/Kg	2.10	0.00 J	0.004 J	0.03 JN
4,4'-DDT	mg/Kg	2.10	-	0.005 JN	0.02 JN
Dieldrin	mg/Kg	0.044	-	-	-
Endosulfan I	mg/Kg	0.90	-	-	-
Endosulfan II	mg/Kg	0.90	-	0.004 J	0.01 JN
Endosulfan sulfate	mg/Kg	1.00	-	-	-
Endrin	mg/Kg	0.10	-	-	0.01 JN
Endrin aldehyde	mg/Kg	-	-	-	-
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	-	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	0.02	0.01 JN	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.03	0.03	0.17
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	0.10	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	0.08	0.12	0.77 J
Aroclor-1260	mg/Kg	1, 10	-	-	0.57 J
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP0701	TP0801	TP1001
	DEPTH:	SOIL CLEAN-UP	8'	2'	15'
	LAB ID:	OBJECTIVE	3067401	3067402	3067403
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD1
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		2/28/97	2/28/97	2/28/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
TCLP HERBICIDES					
NONE	mg/L				
INORGANICS					
Aluminum	mg/Kg	16200	13600	11200	8530
Antimony	mg/Kg	1.6	2.60 J	2.80 J	21.90
Arsenic	mg/Kg	7.9	8.00	6.50	40.70
Barium	mg/Kg	300	137.00	69.50	146.00
Beryllium	mg/Kg	0.6	0.54 J	0.58 J	0.26 J
Cadmium	mg/Kg	1	1.20	1.50	6.50
Calcium	mg/Kg	1135	9630	18300	23100
Chromium	mg/Kg	21.85	28.80	38.00	103.00
Cobalt	mg/Kg	30	12.10	14.00	34.20
Copper	mg/Kg	25	89.50	95.60	224.00
Iron	mg/Kg	33550	43200	41200	569000
Lead	mg/Kg	14.3	240.00	291.00	934.00
Magnesium	mg/Kg	6085	5310	9510	4190
Manganese	mg/Kg	918	672.00	888.00	3490.00
Mercury	mg/Kg	0.1	-	-	0.79
Nickel	mg/Kg	34.5	31.70	30.60	117.00
Potassium	mg/Kg	1270	1180.00	1070.00	1020.00 J
Selenium	mg/Kg	2	-	-	1.10 J
Silver	mg/Kg	N/A	0.60 J	0.32 J	-
Sodium	mg/Kg	167	361.00 J	355.00 J	963.00 J
Thallium	mg/Kg	ND	-	-	-
Vanadium	mg/Kg	150	20.00	25.20	24.60
Zinc	mg/Kg	69.25	281.00	216.00	2830.00
Total Cyanide	mg/Kg	ND	-	-	-
TCLP METALS					
Arsenic	mg/L	5			
Barium	mg/L	100			
Cadmium	mg/L	1			
Lead	mg/L	5			
Silver	mg/L	5			

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected	mg/L = milligrams pe
J = Estimated value	N = tentatively identi
MDL = Method detection limit	R = Data Rejected
mg/kg = milligrams per kilogram	ND = not detected in

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP1101	TP1102	TP1201
	DEPTH:	SOIL CLEAN-UP	12'	4'	17'
	LAB ID:	OBJECTIVE	3067404	3067405	3069501
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD1
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		2/28/97	2/28/97	3/03/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	-	-	-
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	0.001 J	-	-
Ethylbenzene	mg/Kg	5.50	-	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	-
Tetrachloroethene	mg/Kg	1.40	-	-	-
Toluene	mg/Kg	1.50	-	-	-
Trichloroethene	mg/Kg	0.70	0.020	-	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	-	-	-
Total VOCs	mg/Kg	10.00	0.021	0.000	0.000
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	-	0.05 J
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	-	0.15 J
Benzo(a)anthracene	mg/Kg	0.224/MDL	0.12 J	-	0.19 J
Benzo(a)pyrene	mg/Kg	0.061/MDL	0.11 J	-	0.16 J
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	0.08 J
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	0.05 J
Carbazole	mg/Kg	-	-	-	0.07 J
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	0.22 J	-	0.22 J
Di-n-butylphthalate	mg/Kg	8.10	-	-	-
Di-n-octylphthalate	mg/Kg	50.00	0.27 J	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	0.49 J	-	0.72 J
Fluorene	mg/Kg	50.00	-	-	0.11 J
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	0.10 J
2-Methylnaphthalene	mg/Kg	36.40	0.08 J	-	-
4-Methylphenol	mg/Kg	0.90	0.14 J	-	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	-	-

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP1101	TP1102	TP1201
	DEPTH:	SOIL CLEAN-UP	12'	4'	17'
	LAB ID:	OBJECTIVE	3067404	3067405	3069501
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD1
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		2/28/97	2/28/97	3/03/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	-	0.05 J	0.69 J
Phenol	mg/Kg	0.03/MDL	0.45 J	-	-
Pyrene	mg/Kg	50.00	0.50 J	-	0.46 J
1,2,4-Trichlorobenzene	mg/Kg	-	0.05 J	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	3.60	2.40	0.78 J
Total SVOCs	mg/Kg	500.00	6.03	2.45	3.83
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	0.001 JN	-
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	0.003 JN	0.003 JN	-
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	-	0.03 J	-
4,4'-DDE	mg/Kg	2.10	0.03 J	0.02	-
4,4'-DDT	mg/Kg	2.10	0.03 JN	0.06 JN	-
Dieldrin	mg/Kg	0.044	-	0.00 J	-
Endosulfan I	mg/Kg	0.90	0.00 JN	-	-
Endosulfan II	mg/Kg	0.90	0.01 JN	0.01 JN	-
Endosulfan sulfate	mg/Kg	1.00	0.01 JN	-	-
Endrin	mg/Kg	0.10	-	0.003 JN	-
Endrin aldehyde	mg/Kg	-	-	0.02 J	0.01 JN
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	-	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	0.02 JN	-	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.11	0.15	0.01
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	0.85	-	0.04 JN
Aroclor-1260	mg/Kg	1, 10	-	0.44 J	-
TCLP VOLATILES					
NONE	mg/L		-		
TCLP SEMIVOLATILES					
NONE	mg/L		-		
TCLP PESTICIDES					
NONE	mg/L		-		

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP1101		TP1102		TP1201	
	DEPTH:	SOIL CLEAN-UP	12'		4'		17'	
	LAB ID:	OBJECTIVE	3067404		3067405		3069501	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD1		SHD1		SHD1	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		2/28/97		2/28/97		3/03/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L		-					
INORGANICS								
Aluminum	mg/Kg	16200	11000		17200		32900	
Antimony	mg/Kg	1.6	5.40	J	2.00	J	24.00	J
Arsenic	mg/Kg	7.9	7.80		5.00		26.50	
Barium	mg/Kg	300	111.00		82.80		673.00	J
Beryllium	mg/Kg	0.6	0.41	J	0.69		0.23	J
Cadmium	mg/Kg	1	1.70		-		12.80	
Calcium	mg/Kg	1135	33400		1060		34600	
Chromium	mg/Kg	21.85	20.10		23.60		63.20	
Cobalt	mg/Kg	30	10.90		14.30		15.50	
Copper	mg/Kg	25	95.20		23.30		1250.00	
Iron	mg/Kg	33550	93000		31800		107000	J
Lead	mg/Kg	14.3	189.00		11.40		2910.00	J
Magnesium	mg/Kg	6085	3920		5450		5250	
Manganese	mg/Kg	918	740.00		527.00		588.00	
Mercury	mg/Kg	0.1	0.15	J	-		0.21	
Nickel	mg/Kg	34.5	27.40		185.00		178.00	J
Potassium	mg/Kg	1270	1180.00		2190.00		4240.00	J
Selenium	mg/Kg	2	1.50		-		-	
Silver	mg/Kg	N/A	0.81	J	0.46	J	6.80	
Sodium	mg/Kg	167	866.00		295.00	J	2270.00	
Thallium	mg/Kg	ND	-		-		-	
Vanadium	mg/Kg	150	19.10		22.90		27.30	
Zinc	mg/Kg	69.25	327.00		150.00		2380.00	
Total Cyanide	mg/Kg	ND	-		-		-	
TCLP METALS								
Arsenic	mg/L	5	0.31	J				
Barium	mg/L	100	1.80					
Cadmium	mg/L	1	0.05	J				
Lead	mg/L	5	1.10					
Silver	mg/L	5	0.06	J				

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
J = Estimated value
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams pe
N = tentatively identi
R = Data Rejected
ND = not detected in

Table B.1: Test Pit Soil Sample Results

			DUP of TP1201		
	SAMPLE ID:	RECOMMENDED	TP1211	TP1601	TP1801
	DEPTH:	SOIL CLEAN-UP	17'	5'	8'
	LAB ID:	OBJECTIVE	3069504	3069505	3072001
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/03/97	3/04/97	3/05/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	-	-	0.032
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	0.023	-
Chlorobenzene	mg/Kg	1.70	-	-	0.012 J
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-
Ethylbenzene	mg/Kg	5.50	-	0.28 J	0.071
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	0.003 J
Tetrachloroethene	mg/Kg	1.40	0.004 J	0.006 J	0.004 J
Toluene	mg/Kg	1.50	-	0.014	-
Trichloroethene	mg/Kg	0.70	0.002 J	-	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	0.001 J	0.21	0.270
Total VOCs	mg/Kg	10.00	0.007	0.53	0.392
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	2.20	-
Acenaphthylene	mg/Kg	41.00	-	-	0.05 J
Anthracene	mg/Kg	50.00	-	0.72	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	0.22 J	0.17 J
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	0.17 J	0.21 J
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	0.20 J
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	0.16 J
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	0.21 J
Butylbenzylphthalate	mg/Kg	50.00	-	1.10	1.20
Carbazole	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	-	0.31 J	0.31 J
Di-n-butylphthalate	mg/Kg	8.10	-	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	0.22 J	-
Dibenzofuran	mg/Kg	6.20	-	1.60	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	0.33 J
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	0.10 J
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	0.07 J	0.67	-
Fluorene	mg/Kg	50.00	-	2.80	0.05 J
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	0.05 J	0.14 J
2-Methylnaphthalene	mg/Kg	36.40	-	34.00	0.30 J
4-Methylphenol	mg/Kg	0.90	-	0.68	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	7.00	0.40 J

Table B.1: Test Pit Soil Sample Results

			DUP of TP1201		
	SAMPLE ID:	RECOMMENDED	TP1211	TP1601	TP1801
	DEPTH:	SOIL CLEAN-UP	17'	5'	8'
	LAB ID:	OBJECTIVE	3069504	3069505	3072001
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD1	SHD1	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/03/97	3/04/97	3/05/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	0.05 J	6.90	-
Phenol	mg/Kg	0.03/MDL	-	-	1.40
Pyrene	mg/Kg	50.00	0.05 J	0.75	0.25 J
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	1.60 J	4.00 J	28.00 J
Total SVOCs	mg/Kg	500.00	1.78	63.39	33.49
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	R
alpha-Chlordane	mg/Kg	0.54	-	-	0.002 JN
beta-BHC	mg/Kg	0.20	-	-	R
delta-BHC	mg/Kg	0.30	-	-	R
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	R
gamma-Chlordane	mg/Kg	0.54	-	-	0.002 JN
Aldrin	mg/Kg	0.041	-	-	R
4,4'-DDD	mg/Kg	2.90	0.01 JN	0.01	0.07 J
4,4'-DDE	mg/Kg	2.10	0.004 J	-	R
4,4'-DDT	mg/Kg	2.10	0.01 JN	0.003 JN	R
Dieldrin	mg/Kg	0.044	0.003 JN	0.002 JN	R
Endosulfan I	mg/Kg	0.90	-	-	R
Endosulfan II	mg/Kg	0.90	-	-	R
Endosulfan sulfate	mg/Kg	1.00	-	-	R
Endrin	mg/Kg	0.10	-	-	R
Endrin aldehyde	mg/Kg	-	0.004 JN	0.004 JN	0.004 JN
Endrin ketone	mg/Kg	N/A	-	-	R
Heptachlor	mg/Kg	0.10	-	-	R
Heptachlor epoxide	mg/Kg	0.02	0.002 J	-	R
Methoxychlor	mg/Kg	N/A	0.01 J	-	R
Toxaphene	mg/Kg	-	-	-	R
Total Pesticides	mg/kg	10.00	0.04	0.02	0.08
Aroclor-1016	mg/Kg	1, 10	-	-	R
Aroclor-1221	mg/Kg	1, 10	-	-	R
Aroclor-1232	mg/Kg	1, 10	-	-	R
Aroclor-1242	mg/Kg	1, 10	-	0.35	R
Aroclor-1248	mg/Kg	1, 10	-	-	R
Aroclor-1254	mg/Kg	1, 10	0.13 J	0.09	0.05 J
Aroclor-1260	mg/Kg	1, 10	-	-	R
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

			DUP of TP1201					
	SAMPLE ID:	RECOMMENDED	TP1211		TP1601		TP1801	
	DEPTH:	SOIL CLEAN-UP	17'		5'		8'	
	LAB ID:	OBJECTIVE	3069504		3069505		3072001	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD1		SHD1		SHD2	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		3/03/97		3/04/97		3/05/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	26100		6610		14800	
Antimony	mg/Kg	1.6	16.40	J	5.90	J	3.10	J
Arsenic	mg/Kg	7.9	31.50		4.80		14.20	
Barium	mg/Kg	300	904.00	J	45.60	J	116.00	
Beryllium	mg/Kg	0.6	0.27	J	0.10	J	0.39	J
Cadmium	mg/Kg	1	18.10		0.26	J	1.60	
Calcium	mg/Kg	1135	55900		7280		8060	
Chromium	mg/Kg	21.85	102.00		11.80		38.20	
Cobalt	mg/Kg	30	17.20		6.00	J	12.00	
Copper	mg/Kg	25	1820.00		11.90		34.20	
Iron	mg/Kg	33550	105000	J	17100	J	44800	J
Lead	mg/Kg	14.3	1470.00	J	117.00	J	135.00	
Magnesium	mg/Kg	6085	6150		3090		5000	
Manganese	mg/Kg	918	777.00		304.00		533.00	
Mercury	mg/Kg	0.1	0.15		-		0.16	
Nickel	mg/Kg	34.5	249.00	J	15.30	J	31.80	
Potassium	mg/Kg	1270	4950.00	J	519.00	J	1530.00	
Selenium	mg/Kg	2	-		-		-	
Silver	mg/Kg	N/A	10.30		13.60		0.37	J
Sodium	mg/Kg	167	2440.00		608.00	J	315.00	J
Thallium	mg/Kg	ND	-		-		-	
Vanadium	mg/Kg	150	26.5		10.80		23.90	
Zinc	mg/Kg	69.25	2320.00		109.00		368.00	
Total Cyanide	mg/Kg	ND	-		-		-	
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
J = Estimated value
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams pe
N = tentatively identi
R = Data Rejected
ND = not detected in

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP1901	TP1902	TP2101
	DEPTH:	SOIL CLEAN-UP	10'	10'	3'
	LAB ID:	OBJECTIVE	3072002	3072003	3072006
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD2	SHD2	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/05/97	3/05/97	3/06/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	-	0.020	-
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	0.006 J	-
Ethylbenzene	mg/Kg	5.50	0.004 J	0.011 J	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	0.004 J	0.003 J	-
Tetrachloroethene	mg/Kg	1.40	0.007 J	0.002 J	-
Toluene	mg/Kg	1.50	-	-	0.220 J
Trichloroethene	mg/Kg	0.70	0.002 J	0.040	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	0.020	0.031	-
Total VOCs	mg/Kg	10.00	0.037	0.113	0.220
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	-	-
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	-	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	-
Carbazole	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	-	-	-
Di-n-butylphthalate	mg/Kg	8.10	-	-	0.26 J
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	-	-	0.18 J
Fluorene	mg/Kg	50.00	-	-	0.12 J
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	0.07 J
4-Methylphenol	mg/Kg	0.90	-	-	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	-	0.16 J

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP1901	TP1902	TP2101
	DEPTH:	SOIL CLEAN-UP	10'	10'	3'
	LAB ID:	OBJECTIVE	3072002	3072003	3072006
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD2	SHD2	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/05/97	3/05/97	3/06/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	-	-	0.34 J
Phenol	mg/Kg	0.03/MDL	-	-	-
Pyrene	mg/Kg	50.00	-	-	0.09 J
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	-	-	-
Total SVOCs	mg/Kg	500.00	0.00	0.00	1.22
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	-
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	-	0.005 JN	0.004 J
4,4'-DDE	mg/Kg	2.10	-	-	0.002 J
4,4'-DDT	mg/Kg	2.10	-	0.003 JN	-
Dieldrin	mg/Kg	0.044	-	-	-
Endosulfan I	mg/Kg	0.90	-	-	-
Endosulfan II	mg/Kg	0.90	-	-	-
Endosulfan sulfate	mg/Kg	1.00	-	-	-
Endrin	mg/Kg	0.10	-	-	-
Endrin aldehyde	mg/Kg	-	-	0.004 J	-
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	-	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	-	-	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.00	0.01	0.01
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	-	0.05	-
Aroclor-1260	mg/Kg	1, 10	-	-	0.04 J
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP1901		TP1902		TP2101	
	DEPTH:	SOIL CLEAN-UP	10'		10'		3'	
	LAB ID:	OBJECTIVE	3072002		3072003		3072006	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD2		SHD2		SHD2	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		3/05/97		3/05/97		3/06/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	22000		17500		15800	
Antimony	mg/Kg	1.6	6.70	J	5.40	J	1.70	J
Arsenic	mg/Kg	7.9	16.20		11.70		7.70	
Barium	mg/Kg	300	424.00		214.00		81.60	
Beryllium	mg/Kg	0.6	0.42	J	0.32	J	0.35	J
Cadmium	mg/Kg	1	39.90		19.00		1.90	
Calcium	mg/Kg	1135	26900		14700		2010	
Chromium	mg/Kg	21.85	70.70		55.20		39.40	
Cobalt	mg/Kg	30	16.30		19.90		14.20	
Copper	mg/Kg	25	718.00		346.00		77.60	
Iron	mg/Kg	33550	112000	J	89200	J	37400	J
Lead	mg/Kg	14.3	1410.00		759.00		90.30	
Magnesium	mg/Kg	6085	9130		6410		4580	
Manganese	mg/Kg	918	931.00		917.00		601.00	
Mercury	mg/Kg	0.1	0.07	J	0.18		0.07	J
Nickel	mg/Kg	34.5	176.00		114.00		54.80	
Potassium	mg/Kg	1270	4850.00		2360.00		1780.00	
Selenium	mg/Kg	2	-		-		-	
Silver	mg/Kg	N/A	5.40		193.00		2.30	
Sodium	mg/Kg	167	1890.00		874.00		457.00	J
Thallium	mg/Kg	ND	-		-		-	
Vanadium	mg/Kg	150	33.40		24.20		22.90	
Zinc	mg/Kg	69.25	3590.00		1580.00		252.00	
Total Cyanide	mg/Kg	ND	0.73		-		-	
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
J = Estimated value
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams pe
N = tentatively identi
R = Data Rejected
ND = not detected in

Table B.1: Test Pit Soil Sample Results

				DUP of TP2701	
	SAMPLE ID:	RECOMMENDED	TP2701	TP2711	TP3001
	DEPTH:	SOIL CLEAN-UP	10'	10'	4'
	LAB ID:	OBJECTIVE	3076001	3076004	3076005
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD2	SHD2	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/10/97	3/10/97	3/11/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	-	-	0.028 J
Benzene	mg/Kg	0.06	-	-	0.004 J
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-
Ethylbenzene	mg/Kg	5.50	-	-	0.090 J
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	0.013	0.012 J	0.023 J
Tetrachloroethene	mg/Kg	1.40	-	-	0.008 J
Toluene	mg/Kg	1.50	-	-	-
Trichloroethene	mg/Kg	0.70	0.009 J	0.009 J	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	-	-	0.079 J
Total VOCs	mg/Kg	10.00	0.022	0.021	0.232
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	-	-
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	-	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	-
Carbazole	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	-	-	0.27 J
Di-n-butylphthalate	mg/Kg	8.10	0.54 J	-	1.00 J
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	0.20 J
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	0.29 J
Fluoranthene	mg/Kg	50.00	-	-	1.50 J
Fluorene	mg/Kg	50.00	-	-	0.22 J
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	1.20 J
4-Methylphenol	mg/Kg	0.90	-	-	0.21 J
N-Nitrosodiphenylamine	mg/Kg	-	-	-	0.72 J
Naphthalene	mg/Kg	13.00	-	-	1.10 J

Table B.1: Test Pit Soil Sample Results

				DUP of TP2701	
	SAMPLE ID:	RECOMMENDED	TP2701	TP2711	TP3001
	DEPTH:	SOIL CLEAN-UP	10'	10'	4'
	LAB ID:	OBJECTIVE	3076001	3076004	3076005
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD2	SHD2	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/10/97	3/10/97	3/11/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	-	-	1.00 J
Phenol	mg/Kg	0.03/MDL	-	-	-
Pyrene	mg/Kg	50.00	-	-	0.58 J
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	0.14 J
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	-	-	23.00 J
Total SVOCs	mg/Kg	500.00	0.54	0.00	31.43
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	0.01 JN
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	0.01 JN
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	-	-	0.11 JN
4,4'-DDE	mg/Kg	2.10	-	-	0.03 J
4,4'-DDT	mg/Kg	2.10	0.003 JN	-	0.02 JN
Dieldrin	mg/Kg	0.044	0.004	-	0.01 J
Endosulfan I	mg/Kg	0.90	-	-	-
Endosulfan II	mg/Kg	0.90	-	-	-
Endosulfan sulfate	mg/Kg	1.00	-	-	0.01 J
Endrin	mg/Kg	0.10	-	-	-
Endrin aldehyde	mg/Kg	-	0.003 JN	-	-
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	-	-	0.005 JN
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	-	-	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.01	0.00	0.20
Aroclor-1016	mg/Kg	1, 10	-	-	0.71 J
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	0.04 J	0.03 J	0.59 J
Aroclor-1260	mg/Kg	1, 10	-	-	0.67 J
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

				DUP of TP2701				
	SAMPLE ID:	RECOMMENDED	TP2701		TP2711		TP3001	
	DEPTH:	SOIL CLEAN-UP	10'		10'		4'	
	LAB ID:	OBJECTIVE	3076001		3076004		3076005	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD2		SHD2		SHD2	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		3/10/97		3/10/97		3/11/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	12900		13000		6990	J
Antimony	mg/Kg	1.6	4.50	J	1.90	J	9.00	J
Arsenic	mg/Kg	7.9	8.50		7.20		18.20	J
Barium	mg/Kg	300	83.90		84.20		270.00	J
Beryllium	mg/Kg	0.6	0.31	J	0.30	J	-	
Cadmium	mg/Kg	1	6.10		3.10		4.70	J
Calcium	mg/Kg	1135	17900	J	61900	J	23200	J
Chromium	mg/Kg	21.85	114.00	J	52.90	J	121.00	J
Cobalt	mg/Kg	30	12.70		9.10		33.40	J
Copper	mg/Kg	25	227.00	J	114.00	J	134.00	J
Iron	mg/Kg	33550	71800	J	42600	J	298000	J
Lead	mg/Kg	14.3	801.00	J	371.00	J	417.00	J
Magnesium	mg/Kg	6085	5930		8520		1650	J
Manganese	mg/Kg	918	617.00		598.00		1850	J
Mercury	mg/Kg	0.1	0.11	J	-		0.24	J
Nickel	mg/Kg	34.5	63.60	J	35.90	J	218.00	J
Potassium	mg/Kg	1270	2020.00		2330.00		1140.00	J
Selenium	mg/Kg	2	-		-		-	
Silver	mg/Kg	N/A	0.98	J	0.52	J	-	
Sodium	mg/Kg	167	508.00	J	551.00	J	1690.00	J
Thallium	mg/Kg	ND	-		-		-	
Vanadium	mg/Kg	150	23.80		22.60		19.00	J
Zinc	mg/Kg	69.25	683.00		488.00		4130.00	J
Total Cyanide	mg/Kg	ND	0.80	J	-		-	
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
J = Estimated value
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams pe
N = tentatively identi
R = Data Rejected
ND = not detected in

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP3201	TP3601	TP3602
	DEPTH:	SOIL CLEAN-UP	1'	2'	3'
	LAB ID:	OBJECTIVE	3076006	3076801	3076802
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD2	SHD2	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/11/97	3/12/97	3/12/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	0.008 J	-	-
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-
Ethylbenzene	mg/Kg	5.50	0.002 J	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	0.010 J	0.007 J	0.007 J
Tetrachloroethene	mg/Kg	1.40	-	-	-
Toluene	mg/Kg	1.50	0.001 J	-	-
Trichloroethene	mg/Kg	0.70	-	-	-
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	0.005 J	-	-
Total VOCs	mg/Kg	10.00	0.026	0.007	0.007
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	-	-
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	-	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	-	-	-
Carbazole	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	-
Chrysene	mg/Kg	0.40	-	-	-
Di-n-butylphthalate	mg/Kg	8.10	-	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	-	-	-
Fluorene	mg/Kg	50.00	-	-	-
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	-
4-Methylphenol	mg/Kg	0.90	0.04 J	-	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	-	-

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP3201	TP3601	TP3602
	DEPTH:	SOIL CLEAN-UP	1'	2'	3'
	LAB ID:	OBJECTIVE	3076006	3076801	3076802
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD2	SHD2	SHD2
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/11/97	3/12/97	3/12/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	-	-	-
Phenol	mg/Kg	0.03/MDL	-	-	-
Pyrene	mg/Kg	50.00	-	-	-
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	-	-	-
Total SVOCs	mg/Kg	500.00	0.04	0.00	0.00
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	0.01 J	-	-
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	0.005 JN	-	-
4,4'-DDE	mg/Kg	2.10	0.01 JN	-	-
4,4'-DDT	mg/Kg	2.10	-	-	-
Dieldrin	mg/Kg	0.044	-	-	-
Endosulfan I	mg/Kg	0.90	0.003 JN	-	-
Endosulfan II	mg/Kg	0.90	-	-	-
Endosulfan sulfate	mg/Kg	1.00	0.01 JN	-	-
Endrin	mg/Kg	0.10	0.003 JN	-	-
Endrin aldehyde	mg/Kg	-	-	-	-
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	0.01 JN	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	-	-	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.06	0.00	0.00
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	4.00	-	-
Aroclor-1254	mg/Kg	1, 10	-	-	-
Aroclor-1260	mg/Kg	1, 10	-	-	-
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP3201		TP3601		TP3602	
	DEPTH:	SOIL CLEAN-UP	1'		2'		3'	
	LAB ID:	OBJECTIVE	3076006		3076801		3076802	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD2		SHD2		SHD2	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		3/11/97		3/12/97		3/12/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	14600		15700		12800	
Antimony	mg/Kg	1.6	1.70	J	2.10	J	2.00	J
Arsenic	mg/Kg	7.9	5.80		7.80		7.10	
Barium	mg/Kg	300	96.50		77.70		83.30	
Beryllium	mg/Kg	0.6	0.37	J	0.46	J	0.41	J
Cadmium	mg/Kg	1	-		-		-	
Calcium	mg/Kg	1135	784		688		735	
Chromium	mg/Kg	21.85	19.60		21.20		18.00	
Cobalt	mg/Kg	30	11.70		13.00		10.30	
Copper	mg/Kg	25	19.70		17.60		17.60	
Iron	mg/Kg	33550	26000	J	85300	J	25800	J
Lead	mg/Kg	14.3	17.90		7.50		10.80	
Magnesium	mg/Kg	6085	4570		5600		4090	
Manganese	mg/Kg	918	336.00		529.00		493.00	
Mercury	mg/Kg	0.1	-		-		-	
Nickel	mg/Kg	34.5	29.10		30.10		23.70	
Potassium	mg/Kg	1270	1200.00		1780.00		1790.00	
Selenium	mg/Kg	2	-		-		-	
Silver	mg/Kg	N/A	0.29	J	-		-	
Sodium	mg/Kg	167	208.00	J	185.00	J	200.00	J
Thallium	mg/Kg	ND	-		-		-	
Vanadium	mg/Kg	150	19.20		20.30		18.00	
Zinc	mg/Kg	69.25	138.00		62.10		54.10	
Total Cyanide	mg/Kg	ND	-		-		-	
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
J = Estimated value
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams pe
N = tentatively identi
R = Data Rejected
ND = not detected in

Table B.1: Test Pit Soil Sample Results

					DUP of TP3901
	SAMPLE ID:	RECOMMENDED	TP3801	TP3901	TP3911
	DEPTH:	SOIL CLEAN-UP	2'	1'	1'
	LAB ID:	OBJECTIVE	3078701	3079701	3079704
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD3	SHD3	SHD3
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/13/97	3/17/97	3/17/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	0.005 J	-	0.003 J
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	-
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	-	-	-
Ethylbenzene	mg/Kg	5.50	-	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	-
Tetrachloroethene	mg/Kg	1.40	-	-	-
Toluene	mg/Kg	1.50	-	-	-
Trichloroethene	mg/Kg	0.70	0.002 J	0.017 J	0.006 J
Vinyl Chloride	mg/Kg	0.20	-	-	-
Xylene (total)	mg/Kg	1.20	-	-	-
Total VOCs	mg/Kg	10.00	0.007	0.017	0.009
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	0.07 J	-
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	0.09 J	0.05 J
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	0.40 J	0.19 J
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	0.30 J	0.16 J
Benzo(b)fluoranthene	mg/Kg	1.10	-	0.29 J	0.22 J
Benzo(g,h,i)perylene	mg/Kg	50.00	-	0.13 J	0.09 J
Benzo(k)fluoranthene	mg/Kg	1.10	-	0.29 J	0.14 J
Butylbenzylphthalate	mg/Kg	50.00	-	-	-
Carbazole	mg/Kg	-	-	0.09 J	-
4-Chloroaniline	mg/Kg	0.220/MDL	-	-	R
Chrysene	mg/Kg	0.40	-	0.58 J	0.26 J
Di-n-butylphthalate	mg/Kg	8.10	-	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	0.05 J	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	-	0.84 J	0.39 J
Fluorene	mg/Kg	50.00	-	0.06 J	-
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	0.15 J	0.09 J
2-Methylnaphthalene	mg/Kg	36.40	-	-	-
4-Methylphenol	mg/Kg	0.90	-	-	-
N-Nitrosodiphenylamine	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	13.00	-	0.05 J	-

Table B.1: Test Pit Soil Sample Results

					DUP of TP3901
	SAMPLE ID:	RECOMMENDED	TP3801	TP3901	TP3911
	DEPTH:	SOIL CLEAN-UP	2'	1'	1'
	LAB ID:	OBJECTIVE	3078701	3079701	3079704
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD3	SHD3	SHD3
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/13/97	3/17/97	3/17/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	-	0.65 J	0.32 J
Phenol	mg/Kg	0.03/MDL	0.25 J	-	-
Pyrene	mg/Kg	50.00	-	0.75 J	0.31 J
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	1.50	-	-
Total SVOCs	mg/Kg	500.00	1.75	4.78	2.22
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	-
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	-	-	-
4,4'-DDE	mg/Kg	2.10	-	0.004 JN	0.003 J
4,4'-DDT	mg/Kg	2.10	.0033 J	0.02 JN	0.02 J
Dieldrin	mg/Kg	0.044	-	-	-
Endosulfan I	mg/Kg	0.90	-	-	-
Endosulfan II	mg/Kg	0.90	-	-	-
Endosulfan sulfate	mg/Kg	1.00	-	-	-
Endrin	mg/Kg	0.10	-	-	-
Endrin aldehyde	mg/Kg	-	-	-	-
Endrin ketone	mg/Kg	N/A	-	0.004 J	-
Heptachlor	mg/Kg	0.10	-	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	-	-	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.00	0.03	0.02
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	-	0.04	0.03 J
Aroclor-1260	mg/Kg	1, 10	0.03 J	-	-
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

								DUP of TP3901
	SAMPLE ID:	RECOMMENDED	TP3801		TP3901		TP3911	
	DEPTH:	SOIL CLEAN-UP	2'		1'		1'	
	LAB ID:	OBJECTIVE	3078701		3079701		3079704	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD3		SHD3		SHD3	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		3/13/97		3/17/97		3/17/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	9960		11500	J	395	J
Antimony	mg/Kg	1.6	1.70	J	1.80	J	21.90	J
Arsenic	mg/Kg	7.9	7.90	J	10.90	J	6.50	
Barium	mg/Kg	300	155.00		298.00	J	12.70	J
Beryllium	mg/Kg	0.6	0.43	J	0.37	J	-	
Cadmium	mg/Kg	1	-		1.80	J	-	
Calcium	mg/Kg	1135	1220		11500	J	3900	J
Chromium	mg/Kg	21.85	13.40	J	19.00	J	435.00	J
Cobalt	mg/Kg	30	8.70	J	9.80	J	3.90	J
Copper	mg/Kg	25	17.30	J	87.00	J	12.50	J
Iron	mg/Kg	33550	22900		24900	J	6350	J
Lead	mg/Kg	14.3	9.30		700.00	J	14.60	J
Magnesium	mg/Kg	6085	3420		4070	J	461	J
Manganese	mg/Kg	918	692		646.00	J	2610	J
Mercury	mg/Kg	0.1	-		0.20		0.18	
Nickel	mg/Kg	34.5	22.50		25.90	J	194.00	J
Potassium	mg/Kg	1270	1290.00		1190.00	J	535.00	J
Selenium	mg/Kg	2	-		-		-	
Silver	mg/Kg	N/A	-		0.73	J	3.30	J
Sodium	mg/Kg	167	345.00	J	664.00	J	-	
Thallium	mg/Kg	ND	0.72	J	0.84	J	-	
Vanadium	mg/Kg	150	14.1		30.20	J	10.10	J
Zinc	mg/Kg	69.25	50.70		1060.00	J	28.10	J
Total Cyanide	mg/Kg	ND	-		3.01	J	0.84	J
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
J = Estimated value
MDL = Method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams pe
N = tentatively identi
R = Data Rejected
ND = not detected in

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP4001	TP4301	TP4601
	DEPTH:	SOIL CLEAN-UP	4'	6'	2'
	LAB ID:	OBJECTIVE	3079705	3082302	3082303
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD3	SHD3	SHD3
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/17/97	3/18/97	3/19/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.20	0.019	0.014	0.016
Benzene	mg/Kg	0.06	-	-	-
2-Butanone	mg/Kg	0.30	-	-	0.004 J
Chlorobenzene	mg/Kg	1.70	-	-	-
1,2-Dichloroethene (total)	mg/Kg	0.30	0.130	-	-
Ethylbenzene	mg/Kg	5.50	0.006 J	-	-
4-Methyl-2-Pentanone	mg/Kg	1.00	-	-	-
Methylene Chloride	mg/Kg	0.10	-	-	-
Tetrachloroethene	mg/Kg	1.40	-	-	-
Toluene	mg/Kg	1.50	0.006 J	-	-
Trichloroethene	mg/Kg	0.70	0.028	-	-
Vinyl Chloride	mg/Kg	0.20	0.041 J	-	-
Xylene (total)	mg/Kg	1.20	0.003 J	-	-
Total VOCs	mg/Kg	10.00	0.233	0.014	0.020
SEMIVOLATILES					
Acenaphthene	mg/Kg	50.00	-	-	-
Acenaphthylene	mg/Kg	41.00	-	-	-
Anthracene	mg/Kg	50.00	-	-	-
Benzo(a)anthracene	mg/Kg	0.224/MDL	-	-	-
Benzo(a)pyrene	mg/Kg	0.061/MDL	-	-	-
Benzo(b)fluoranthene	mg/Kg	1.10	-	-	-
Benzo(g,h,i)perylene	mg/Kg	50.00	-	-	-
Benzo(k)fluoranthene	mg/Kg	1.10	-	-	-
Butylbenzylphthalate	mg/Kg	50.00	0.08 JN	-	-
Carbazole	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	0.220/MDL	R	R	R
Chrysene	mg/Kg	0.40	0.12 J	-	-
Di-n-butylphthalate	mg/Kg	8.10	0.18 J	-	-
Di-n-octylphthalate	mg/Kg	50.00	-	-	-
Dibenzofuran	mg/Kg	6.20	-	-	-
1,4-Dichlorobenzene	mg/Kg	-	-	-	-
Diethylphthalate	mg/Kg	7.10	-	-	-
Dimethylphthalate	mg/Kg	2.00	-	-	-
2,6-Dinitrotoluene	mg/Kg	1.00	-	-	-
Fluoranthene	mg/Kg	50.00	0.15 J	-	-
Fluorene	mg/Kg	50.00	-	-	-
Hexachlorocyclopentadiene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	3.20	-	-	-
2-Methylnaphthalene	mg/Kg	36.40	-	-	-
4-Methylphenol	mg/Kg	0.90	-	-	-
N-Nitrosodiphenylamine	mg/Kg	-	1.40	-	-
Naphthalene	mg/Kg	13.00	-	-	-

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP4001	TP4301	TP4601
	DEPTH:	SOIL CLEAN-UP	4'	6'	2'
	LAB ID:	OBJECTIVE	3079705	3082302	3082303
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD3	SHD3	SHD3
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/17/97	3/18/97	3/19/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Pentachlorophenol	mg/Kg	1.0/MDL	-	-	-
Phenanthrene	mg/Kg	50.00	0.54	-	-
Phenol	mg/Kg	0.03/MDL	-	-	-
Pyrene	mg/Kg	50.00	0.16 J	-	-
1,2,4-Trichlorobenzene	mg/Kg	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/Kg	50.00	1.30	-	-
Total SVOCs	mg/Kg	500.00	3.93	0.00	0.00
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	0.11	-	-	-
alpha-Chlordane	mg/Kg	0.54	-	-	-
beta-BHC	mg/Kg	0.20	-	-	-
delta-BHC	mg/Kg	0.30	-	-	-
gamma-BHC (Lindane)	mg/Kg	0.06	-	-	-
gamma-Chlordane	mg/Kg	0.54	-	-	-
Aldrin	mg/Kg	0.041	-	-	-
4,4'-DDD	mg/Kg	2.90	-	-	-
4,4'-DDE	mg/Kg	2.10	-	-	-
4,4'-DDT	mg/Kg	2.10	0.01 J	-	-
Dieldrin	mg/Kg	0.044	-	-	-
Endosulfan I	mg/Kg	0.90	-	-	-
Endosulfan II	mg/Kg	0.90	-	-	-
Endosulfan sulfate	mg/Kg	1.00	-	-	-
Endrin	mg/Kg	0.10	-	-	-
Endrin aldehyde	mg/Kg	-	-	-	-
Endrin ketone	mg/Kg	N/A	-	-	-
Heptachlor	mg/Kg	0.10	0.001 J	-	-
Heptachlor epoxide	mg/Kg	0.02	-	-	-
Methoxychlor	mg/Kg	N/A	-	-	-
Toxaphene	mg/Kg	-	-	-	-
Total Pesticides	mg/kg	10.00	0.01	0.00	0.00
Aroclor-1016	mg/Kg	1, 10	-	-	-
Aroclor-1221	mg/Kg	1, 10	-	-	-
Aroclor-1232	mg/Kg	1, 10	-	-	-
Aroclor-1242	mg/Kg	1, 10	-	-	-
Aroclor-1248	mg/Kg	1, 10	-	-	-
Aroclor-1254	mg/Kg	1, 10	-	-	-
Aroclor-1260	mg/Kg	1, 10	-	-	-
TCLP VOLATILES					
NONE	mg/L				
TCLP SEMIVOLATILES					
NONE	mg/L				
TCLP PESTICIDES					
NONE	mg/L				

Table B.1: Test Pit Soil Sample Results

	SAMPLE ID:	RECOMMENDED	TP4001		TP4301		TP4601	
	DEPTH:	SOIL CLEAN-UP	4'		6'		2'	
	LAB ID:	OBJECTIVE	3079705		3082302		3082303	
	SOURCE:	(see Note 1)	NYTEST		NYTEST		NYTEST	
	SDG:		SHD3		SHD3		SHD3	
	MATRIX:		SOIL		SOIL		SOIL	
	SAMPLED:		3/17/97		3/18/97		3/19/97	
	VALIDATED:		7/25/97		7/25/97		7/25/97	
COMPOUND	UNITS:							
TCLP HERBICIDES								
NONE	mg/L							
INORGANICS								
Aluminum	mg/Kg	16200	10500		14500		16200	
Antimony	mg/Kg	1.6	2.60	J	2.00	J	2.50	J
Arsenic	mg/Kg	7.9	8.20		6.00		6.70	
Barium	mg/Kg	300	109.00		117.00		131.00	
Beryllium	mg/Kg	0.6	0.32	J	0.45	J	0.50	J
Cadmium	mg/Kg	1	0.39	J	-		-	
Calcium	mg/Kg	1135	1250		924		1030	
Chromium	mg/Kg	21.85	15.20	J	27.30	J	30.50	J
Cobalt	mg/Kg	30	9.60	J	12.60	J	14.00	J
Copper	mg/Kg	25	24.20	J	11.80	J	13.30	J
Iron	mg/Kg	33550	27900		26800		29900	
Lead	mg/Kg	14.3	52.10		8.40		9.50	
Magnesium	mg/Kg	6085	3270		3910		4360	
Manganese	mg/Kg	918	477.00		1330	J	1480	
Mercury	mg/Kg	0.1	-		-		-	
Nickel	mg/Kg	34.5	36.40		24.60		27.30	
Potassium	mg/Kg	1270	1260.00		1320.00		1470.00	
Selenium	mg/Kg	2	-		-		-	
Silver	mg/Kg	N/A	-		-		-	
Sodium	mg/Kg	167	684.00	J	457.00	J	475.00	J
Thallium	mg/Kg	ND	-		2.10	J	1.40	J
Vanadium	mg/Kg	150	16.00		21.10		23.60	
Zinc	mg/Kg	69.25	1270.00		70.50		78.60	
Total Cyanide	mg/Kg	ND	1.34		-		-	
TCLP METALS								
Arsenic	mg/L	5						
Barium	mg/L	100						
Cadmium	mg/L	1						
Lead	mg/L	5						
Silver	mg/L	5						

Prepared/Date: RTB 10/20 05
Checked/Date: MJS 10/20 05

Notes:
1. See Tables 1.2 and 1.3 regarding how recommended cleanup objectives were derived.

Highlighted values exceed Recommended Soil Cleanup Ob

- = compound not detected
mg/L = milligrams pe
J = Estimated value
N = tentatively identi
MDL = Method detection limit
R = Data Rejected
mg/kg = milligrams per kilogram
ND = not detected in

Table B.3: Drum Sample Results

	SAMPLE ID:	DS2001	DS2002	TP21D1	TP38D1
	LAB ID:	3072004	3072005	3129001	3083505
	SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	SHD2	SHD2	SHD4	SHD4
	MATRIX:	SOIL	SOIL	SOIL	SOIL
	SAMPLED:	3/05/97	3/05/97	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	-	1.1 J	-	-
Benzene	mg/Kg	-	0.01 J	-	-
2-Butanone	mg/Kg	-	0.15 J	-	-
Carbon Disulfide	mg/Kg	-	0.002 J	-	-
Ethylbenzene	mg/Kg	-	0.06 J	0.36 J	1.9
4-Methyl-2-Pentanone	mg/Kg	-	-	-	5.8
Methylene Chloride	mg/Kg	-	0.007 J	8.2	0.65 J
Styrene	mg/Kg	-	-	0.29 J	-
Tetrachloroethene	mg/Kg	-	-	0.24 J	-
Toluene	mg/Kg	-	0.041 J	1.2	-
Trichloroethene	mg/Kg	-	-	5.8	-
Xylene (total)	mg/Kg	-	0.013 J	1.4	24
SEMIVOLATILES					
Benzo(a)pyrene	mg/Kg	0.1 J	-	-	-
Benzo(b)fluoranthene	mg/Kg	-	-	-	-
Benzo(g,h,i)perylene	mg/Kg	-	-	-	-
Benzo(k)fluoranthene	mg/Kg	-	-	-	-
Benzoic Acid	mg/Kg			-	21 J
Benzyl Alcohol	mg/Kg			-	-
Butylbenzylphthalate	mg/Kg	-	7.6	-	-
4-Chloroaniline	mg/Kg	-	-	R	-
Di-n-butylphthalate	mg/Kg	-	-	-	-
Di-n-octylphthalate	mg/Kg	0.18 J	-	-	-
Dibenz(a,h)anthracene	mg/Kg	-	-	-	-
2,4-Dimethylphenol	mg/Kg	-	-	-	3.3 J
Fluoranthene	mg/Kg	0.42 J	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	-	-	-	-
2-Methylnaphthalene	mg/Kg	0.25 J	1.9 J	-	-
4-Methylphenol	mg/Kg	-	0.31 J	-	-
Naphthalene	mg/Kg	-	0.5 J	-	-
4-Nitroaniline	mg/Kg	-	-	R	-
Phenanthrene	mg/Kg	3.5	-	100	-
Pyrene	mg/Kg	0.58 J	-	14 J	-
2,4,5-Trichlorophenol	mg/Kg	-	-	350	-
bis(2-Ethylhexyl)phthalate	mg/Kg	-	-	200	60000
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	-	-	-	-
alpha-Chlordane	mg/Kg	-	0.011 J	-	-
beta-BHC	mg/Kg	-	-	-	-
delta-BHC	mg/Kg	-	-	-	-
gamma-BHC (Lindane)	mg/Kg	-	-	-	-
gamma-Chlordane	mg/Kg	-	0.007 JN	-	-
Aldrin	mg/Kg	-	-	-	-

Table B.3: Drum Sample Results

	SAMPLE ID:	DS2001	DS2002	TP21D1	TP38D1
	LAB ID:	3072004	3072005	3129001	3083505
	SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	SHD2	SHD2	SHD4	SHD4
	MATRIX:	SOIL	SOIL	SOIL	SOIL
	SAMPLED:	3/05/97	3/05/97	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
4,4'-DDD	mg/Kg	-	-	-	-
4,4'-DDE	mg/Kg	-	0.019 J	-	-
4,4'-DDT	mg/Kg	0.0079 JN	-	-	-
Dieldrin	mg/Kg	-	-	-	-
Endosulfan I	mg/Kg	-	0.0026 JN	-	-
Endosulfan II	mg/Kg	0.0062 J	-	-	-
Endosulfan sulfate	mg/Kg	-	-	-	-
Endrin	mg/Kg	-	0.0072 JN	-	-
Endrin aldehyde	mg/Kg	-	0.063 JN	-	-
Endrin ketone	mg/Kg	-	-	-	-
Heptachlor	mg/Kg	-	-	-	-
Heptachlor epoxide	mg/Kg	-	0.0013 JN	-	-
Methoxychlor	mg/Kg	-	-	-	-
Toxaphene	mg/Kg	-	-	-	-
Aroclor-1016	mg/Kg	-	-	-	-
Aroclor-1221	mg/Kg	-	-	-	-
Aroclor-1232	mg/Kg	-	-	-	-
Aroclor-1242	mg/Kg	-	-	-	-
Aroclor-1248	mg/Kg	-	-	-	-
Aroclor-1254	mg/Kg	0.047 J	0.35 J	-	-
Aroclor-1260	mg/Kg	-	-	-	-
INORGANICS					
Aluminum	mg/Kg	2650	22600	1960	549
Antimony	mg/Kg	11.1 J	36.4 J	11.1 J	1.3 J
Arsenic	mg/Kg	26.7	47.8	0.76 J	-
Barium	mg/Kg	40.4	46.3	343	6.6 J
Beryllium	mg/Kg	-	-	-	0.05 J
Cadmium	mg/Kg	-	-	1.2	0.06 J
Calcium	mg/Kg	5240	688	3660	497 J
Chromium	mg/Kg	75.5	5560	6.2	5.9
Cobalt	mg/Kg	22.8	1210	1.1 J	1.2 J
Copper	mg/Kg	626	2260	84.4	19.6
Iron	mg/Kg	193000 J	622000 J	9510 J	14000 J
Lead	mg/Kg	1580	1340	116 J	11.2 J
Magnesium	mg/Kg	1000	201 J	304 J	350 J
Manganese	mg/Kg	2910	4170	76.8	54.5
Nickel	mg/Kg	109	908	5.3	4.2 J
Potassium	mg/Kg	307 J	734	248 J	509 J
Selenium	mg/Kg	-	-	0.95	0.61
Silver	mg/Kg	1.4	17.8	0.51 J	-
Sodium	mg/Kg	186 J	898	440 J	445 J
Thallium	mg/Kg	-	-	-	-
Vanadium	mg/Kg	11	430	1.9 J	0.75 J
Zinc	mg/Kg	303	448	826 J	987 J

Table B.3: Drum Sample Results

	SAMPLE ID:	DS2001	DS2002	TP21D1	TP38D1
	LAB ID:	3072004	3072005	3129001	3083505
	SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	SHD2	SHD2	SHD4	SHD4
	MATRIX:	SOIL	SOIL	SOIL	SOIL
	SAMPLED:	3/05/97	3/05/97	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Total Cyanide	mg/Kg	1.55	-	1.58	1.88
TCLP VOLATILES					
Benzene	mg/L			R	
2-Butanone	mg/L			0.03 J	
Carbon Tetrachloride	mg/L			R	
Chlorobenzene	mg/L			R	
Chloroform	mg/L			R	
1,2-Dichloroethane	mg/L			R	
1,1-Dichloroethene	mg/L			R	
Tetrachloroethene	mg/L			R	
Trichloroethene	mg/L			0.01 J	
Vinyl Chloride	mg/L			R	
TCLP SEMIVOLATILES					
1,4-Dichlorobenzene	mg/L			R	
2,4-Dinitrotoluene	mg/L			R	
Hexachlorobenzene	mg/L			R	
Hexachlorobutadiene	mg/L			R	
Hexachloroethane	mg/L			R	
2-Methylphenol	mg/L			R	
3+4-Methylphenol	mg/L			0.06 J	
Nitrobenzene	mg/L			R	
Pentachlorophenol	mg/L			R	
Pyridine	mg/L			R	
2,4,5-Trichlorophenol	mg/L			0.23 J	
2,4,6-Trichlorophenol	mg/L			0.25 J	
TCLP METALS					
Arsenic	mg/L			0.0721	
Cadmium	mg/L			-	
Lead	mg/L			-	
Mercury	mg/L			0.00013 J	
Selenium	mg/L			-	
Silver	mg/L			0.0182 J	

Notes:
- = compound not detected
J = Estimated value
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N = tentatively identified compound
R = Data rejected

Table B.3: Drum Sample Results

				DUP of TP41D1	
	SAMPLE ID:	TP4101	TP41D1	TP41DR1	TP45D1
	LAB ID:	3082301	3083501	3129003	3083507
	SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	SHD3	SHD4	SHD4	SHD4
	MATRIX:	SOIL	SOIL	SOIL	SOIL
	SAMPLED:	3/18/97	3/20/97	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
Acetone	mg/Kg	0.011 J	-	-	-
Benzene	mg/Kg	-	-	-	-
2-Butanone	mg/Kg	-	-	0.006 J	-
Carbon Disulfide	mg/Kg	-	-	-	-
Ethylbenzene	mg/Kg	-	-	-	-
4-Methyl-2-Pentanone	mg/Kg	-	-	-	-
Methylene Chloride	mg/Kg	-	-	0.032 J	0.34 J
Styrene	mg/Kg	-	-	-	-
Tetrachloroethene	mg/Kg	-	-	-	-
Toluene	mg/Kg	-	-	0.003 J	-
Trichloroethene	mg/Kg	0.002 J	-	-	-
Xylene (total)	mg/Kg	-	-	-	-
SEMIVOLATILES					
Benzo(a)pyrene	mg/Kg	-	-	-	R
Benzo(b)fluoranthene	mg/Kg	-	-	-	R
Benzo(g,h,i)perylene	mg/Kg	-	-	-	R
Benzo(k)fluoranthene	mg/Kg	-	-	-	R
Benzoic Acid	mg/Kg		-	-	R
Benzyl Alcohol	mg/Kg		-	-	R
Butylbenzylphthalate	mg/Kg	-	-	-	-
4-Chloroaniline	mg/Kg	R	-	R	-
Di-n-butylphthalate	mg/Kg	-	-	-	6.2 J
Di-n-octylphthalate	mg/Kg	-	-	-	R
Dibenz(a,h)anthracene	mg/Kg	-	-	-	R
2,4-Dimethylphenol	mg/Kg	-	-	-	-
Fluoranthene	mg/Kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/Kg	-	-	-	R
2-Methylnaphthalene	mg/Kg	-	-	-	-
4-Methylphenol	mg/Kg	-	-	-	-
Naphthalene	mg/Kg	-	-	-	-
4-Nitroaniline	mg/Kg	-	-	R	-
Phenanthrene	mg/Kg	-	13 J	17 J	-
Pyrene	mg/Kg	-	-	-	-
2,4,5-Trichlorophenol	mg/Kg	-	46 J	47 J	-
bis(2-Ethylhexyl)phthalate	mg/Kg	-	13 J	20 J	24 J
PESTICIDES/PCBs					
alpha-BHC	mg/Kg	-	-	-	R
alpha-Chlordane	mg/Kg	-	-	-	R
beta-BHC	mg/Kg	-	-	-	R
delta-BHC	mg/Kg	-	-	-	R
gamma-BHC (Lindane)	mg/Kg	-	-	-	R
gamma-Chlordane	mg/Kg	-	-	-	R
Aldrin	mg/Kg	-	-	-	R

Table B.3: Drum Sample Results

				DUP of TP41D1	
	SAMPLE ID:	TP4101	TP41D1	TP41DR1	TP45D1
	LAB ID:	3082301	3083501	3129003	3083507
	SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	SHD3	SHD4	SHD4	SHD4
	MATRIX:	SOIL	SOIL	SOIL	SOIL
	SAMPLED:	3/18/97	3/20/97	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
4,4'-DDD	mg/Kg	-	-	-	R
4,4'-DDE	mg/Kg	-	-	-	R
4,4'-DDT	mg/Kg	-	-	-	R
Dieldrin	mg/Kg	-	-	-	R
Endosulfan I	mg/Kg	-	-	-	R
Endosulfan II	mg/Kg	-	-	-	R
Endosulfan sulfate	mg/Kg	-	-	-	R
Endrin	mg/Kg	-	-	-	R
Endrin aldehyde	mg/Kg	-	-	-	R
Endrin ketone	mg/Kg	-	-	-	R
Heptachlor	mg/Kg	-	-	-	R
Heptachlor epoxide	mg/Kg	-	-	-	R
Methoxychlor	mg/Kg	-	-	-	R
Toxaphene	mg/Kg	-	-	-	R
Aroclor-1016	mg/Kg	-	-	-	R
Aroclor-1221	mg/Kg	-	-	-	R
Aroclor-1232	mg/Kg	-	-	-	R
Aroclor-1242	mg/Kg	-	-	-	R
Aroclor-1248	mg/Kg	-	-	-	R
Aroclor-1254	mg/Kg	-	-	-	R
Aroclor-1260	mg/Kg	-	-	-	R
INORGANICS					
Aluminum	mg/Kg	21800	-	-	43.6
Antimony	mg/Kg	2.7 J	18.6 J	23.9 J	-
Arsenic	mg/Kg	15.5	23.3 J	26.3 J	-
Barium	mg/Kg	114	10.2 J	11.1 J	47.4
Beryllium	mg/Kg	0.87	-	-	-
Cadmium	mg/Kg	-	26	12.2	0.52
Calcium	mg/Kg	1140	368 J	427 J	30.4 J
Chromium	mg/Kg	28 J	212	205	0.29 J
Cobalt	mg/Kg	16.9 J	15.9	16.1	-
Copper	mg/Kg	24 J	6090	5120	7.3
Iron	mg/Kg	326000	310000 J	302000 J	161 J
Lead	mg/Kg	15.2	292 J	321 J	5.8 J
Magnesium	mg/Kg	7830	1120	1290	-
Manganese	mg/Kg	310	2270	2300	1.6
Nickel	mg/Kg	51.4	240	160	0.27 J
Potassium	mg/Kg	2000	153 J	134 J	-
Selenium	mg/Kg	-	-	-	-
Silver	mg/Kg	-	2.3	1.9	-
Sodium	mg/Kg	522 J	631	493 J	-
Thallium	mg/Kg	-	-	-	0.75 J
Vanadium	mg/Kg	26	40.3	43.5	-
Zinc	mg/Kg	182	1680 J	1410 J	206 J

Table B.3: Drum Sample Results

				DUP of TP41D1	
	SAMPLE ID:	TP4101	TP41D1	TP41DR1	TP45D1
	LAB ID:	3082301	3083501	3129003	3083507
	SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
	SDG:	SHD3	SHD4	SHD4	SHD4
	MATRIX:	SOIL	SOIL	SOIL	SOIL
	SAMPLED:	3/18/97	3/20/97	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
Total Cyanide	mg/Kg	2.12	1.9 J	-	-
TCLP VOLATILES					
Benzene	mg/L				
2-Butanone	mg/L				
Carbon Tetrachloride	mg/L				
Chlorobenzene	mg/L				
Chloroform	mg/L				
1,2-Dichloroethane	mg/L				
1,1-Dichloroethene	mg/L				
Tetrachloroethene	mg/L				
Trichloroethene	mg/L				
Vinyl Chloride	mg/L				
TCLP SEMIVOLATILES					
1,4-Dichlorobenzene	mg/L				
2,4-Dinitrotoluene	mg/L				
Hexachlorobenzene	mg/L				
Hexachlorobutadiene	mg/L				
Hexachloroethane	mg/L				
2-Methylphenol	mg/L				
3+4-Methylphenol	mg/L				
Nitrobenzene	mg/L				
Pentachlorophenol	mg/L				
Pyridine	mg/L				
2,4,5-Trichlorophenol	mg/L				
2,4,6-Trichlorophenol	mg/L				
TCLP METALS					
Arsenic	mg/L		0.4	0.408	
Cadmium	mg/L		0.0521 J	0.0608 J	
Lead	mg/L		0.117	0.128	
Mercury	mg/L		0.0002 J	0.00007 J	
Selenium	mg/L		0.374	0.336	
Silver	mg/L		0.105 J	0.117 J	

Notes:
- = compound not detected
J = Estimated value
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N = tentatively identified compound
R = Data rejected

Table B.3: Drum Sample Results

	SAMPLE ID:	TP45D2	TP45D2 ACID
	LAB ID:	3083508	3083508
	SOURCE:	NYTEST	NYTEST
	SDG:	SHD4	SHD4
	MATRIX:	SOIL	SOIL
	SAMPLED:	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97
COMPOUND	UNITS:		
VOLATILES			
Acetone	mg/Kg	-	
Benzene	mg/Kg	-	
2-Butanone	mg/Kg	-	
Carbon Disulfide	mg/Kg	-	
Ethylbenzene	mg/Kg	0.15 J	
4-Methyl-2-Pentanone	mg/Kg	-	
Methylene Chloride	mg/Kg	0.33 J	
Styrene	mg/Kg	-	
Tetrachloroethene	mg/Kg	-	
Toluene	mg/Kg	0.82 J	
Trichloroethene	mg/Kg	-	
Xylene (total)	mg/Kg	2.8	
SEMIVOLATILES			
Benzo(a)pyrene	mg/Kg	-	
Benzo(b)fluoranthene	mg/Kg	-	
Benzo(g,h,i)perylene	mg/Kg	-	
Benzo(k)fluoranthene	mg/Kg	-	
Benzoic Acid	mg/Kg	-	
Benzyl Alcohol	mg/Kg	-	
Butylbenzylphthalate	mg/Kg	-	
4-Chloroaniline	mg/Kg	R	
Di-n-butylphthalate	mg/Kg	-	
Di-n-octylphthalate	mg/Kg	11 J	
Dibenz(a,h)anthracene	mg/Kg	-	
2,4-Dimethylphenol	mg/Kg	-	
Fluoranthene	mg/Kg	-	
Indeno(1,2,3-cd)pyrene	mg/Kg	-	
2-Methylnaphthalene	mg/Kg	-	
4-Methylphenol	mg/Kg	-	
Naphthalene	mg/Kg	35 J	
4-Nitroaniline	mg/Kg	R	
Phenanthrene	mg/Kg	15 J	
Pyrene	mg/Kg	-	
2,4,5-Trichlorophenol	mg/Kg	-	
bis(2-Ethylhexyl)phthalate	mg/Kg	-	
PESTICIDES/PCBs			
alpha-BHC	mg/Kg	-	
alpha-Chlordane	mg/Kg	-	
beta-BHC	mg/Kg	-	
delta-BHC	mg/Kg	-	
gamma-BHC (Lindane)	mg/Kg	-	
gamma-Chlordane	mg/Kg	-	
Aldrin	mg/Kg	-	

Table B.3: Drum Sample Results

	SAMPLE ID:	TP45D2	TP45D2 ACID
	LAB ID:	3083508	3083508
	SOURCE:	NYTEST	NYTEST
	SDG:	SHD4	SHD4
	MATRIX:	SOIL	SOIL
	SAMPLED:	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97
COMPOUND	UNITS:		
4,4'-DDD	mg/Kg	-	
4,4'-DDE	mg/Kg	-	
4,4'-DDT	mg/Kg	-	
Dieldrin	mg/Kg	-	
Endosulfan I	mg/Kg	-	
Endosulfan II	mg/Kg	-	
Endosulfan sulfate	mg/Kg	-	
Endrin	mg/Kg	-	
Endrin aldehyde	mg/Kg	-	
Endrin ketone	mg/Kg	-	
Heptachlor	mg/Kg	-	
Heptachlor epoxide	mg/Kg	-	
Methoxychlor	mg/Kg	-	
Toxaphene	mg/Kg	-	
Aroclor-1016	mg/Kg	-	-
Aroclor-1221	mg/Kg	-	-
Aroclor-1232	mg/Kg	-	-
Aroclor-1242	mg/Kg	-	-
Aroclor-1248	mg/Kg	-	-
Aroclor-1254	mg/Kg	-	7100
Aroclor-1260	mg/Kg	-	-
INORGANICS			
Aluminum	mg/Kg	2300	
Antimony	mg/Kg	1 J	
Arsenic	mg/Kg	0.89 J	
Barium	mg/Kg	74.3	
Beryllium	mg/Kg	-	
Cadmium	mg/Kg	58	
Calcium	mg/Kg	420 J	
Chromium	mg/Kg	11.5	
Cobalt	mg/Kg	0.53 J	
Copper	mg/Kg	249	
Iron	mg/Kg	16300 J	
Lead	mg/Kg	86.7 J	
Magnesium	mg/Kg	161 J	
Manganese	mg/Kg	317	
Nickel	mg/Kg	11.9	
Potassium	mg/Kg	249 J	
Selenium	mg/Kg	0.45 J	
Silver	mg/Kg	0.52 J	
Sodium	mg/Kg	733	
Thallium	mg/Kg	-	
Vanadium	mg/Kg	2.2 J	
Zinc	mg/Kg	181 J	

Table B.3: Drum Sample Results

	SAMPLE ID:	TP45D2	TP45D2 ACID
	LAB ID:	3083508	3083508
	SOURCE:	NYTEST	NYTEST
	SDG:	SHD4	SHD4
	MATRIX:	SOIL	SOIL
	SAMPLED:	3/20/97	3/20/97
	VALIDATED:	7/25/97	7/25/97
COMPOUND	UNITS:		
Total Cyanide	mg/Kg	-	
TCLP VOLATILES			
Benzene	mg/L		
2-Butanone	mg/L		
Carbon Tetrachloride	mg/L		
Chlorobenzene	mg/L		
Chloroform	mg/L		
1,2-Dichloroethane	mg/L		
1,1-Dichloroethene	mg/L		
Tetrachloroethene	mg/L		
Trichloroethene	mg/L		
Vinyl Chloride	mg/L		
TCLP SEMIVOLATILES			
1,4-Dichlorobenzene	mg/L		
2,4-Dinitrotoluene	mg/L		
Hexachlorobenzene	mg/L		
Hexachlorobutadiene	mg/L		
Hexachloroethane	mg/L		
2-Methylphenol	mg/L		
3+4-Methylphenol	mg/L		
Nitrobenzene	mg/L		
Pentachlorophenol	mg/L		
Pyridine	mg/L		
2,4,5-Trichlorophenol	mg/L		
2,4,6-Trichlorophenol	mg/L		
TCLP METALS			
Arsenic	mg/L	-	
Cadmium	mg/L	2.14 J	
Lead	mg/L	0.264	
Mercury	mg/L	-	
Selenium	mg/L	-	
Silver	mg/L	0.0095 J	

Notes:
- = compound not detected
J = Estimated value
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N = tentatively identified compound
R = Data rejected

Prepare/Date: RTB 10/20/05
Checked/Date: MJS 10/20/05

Table B.6: Soil Boring Sample Results

	SAMPLE ID:	RECOMMENDED	MW1B	MW1E	MW2B
	DEPTH:	SOIL CLEAN-UP	2-4'	6-10'	2-4'
	LAB ID:	OBJECTIVE	3090501	3090502	3090503
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD5	SHD5	SHD5
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/26/97	3/26/97	3/27/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
1,2-Dichloroethene (total)	mg/Kg	0.3	-	-	-
Methylene Chloride	mg/Kg	0.1	0.004 J	0.004 J	0.004 J
Trichloroethene	mg/Kg	0.7	-	-	-
Total VOCs*	mg/Kg	10	0.004	0.004	0.004
SEMIVOLATILES					
bis(2-Ethylhexyl)phthalate	mg/Kg	50	0.23 J	0.077 J	-
Total SVOCs*	mg/Kg	500	0.23	0.077	-
PESTICIDES/PCBs					
Methoxychlor	mg/Kg	10	-	0.014 J	-
Total Pesticides*	mg/Kg	10			
INORGANICS					
Aluminum	mg/Kg	16200	17400	15000	15000
Antimony	mg/Kg	1.6	1.7 J	1.5 J	1.7 J
Arsenic	mg/Kg	7.9	8.9	6.9	8
Barium	mg/Kg	300	46.6 J	133 J	59.6 J
Beryllium	mg/Kg	0.6	0.65	0.55	0.56
Calcium	mg/Kg	1135	1000 J	1270 J	782 J
Chromium	mg/Kg	21.85	22.3 J	21.4 J	20.5 J
Cobalt	mg/Kg	30	15.5 J	16 J	13.6 J
Copper	mg/Kg	25	20	18.2	19
Iron	mg/Kg	33550	33900 J	33200 J	29400 J
Lead	mg/Kg	14.3	22.9	5.7	9.2
Magnesium	mg/Kg	6085	6020 J	6150 J	5490 J
Manganese	mg/Kg	918	836 J	1000 J	547 J
Mercury	mg/Kg	0.1	-	-	-
Nickel	mg/Kg	34.5	35.5 J	33.5 J	31.4 J
Potassium	mg/Kg	1270	1290	1250	1140
Sodium	mg/Kg	167	167 J	-	121 J
Thallium	mg/Kg	ND	-	-	0.97 J
Vanadium	mg/Kg	150	21.3 J	19.4 J	19.4 J
Zinc	mg/Kg	69.25	73.5 J	65 J	68.1 J
Total Cyanide	mg/Kg	***	-	-	-

Notes:
1. See Tables 1.2 and 1.3 for information on how recommended cleanup objectives were derived.
Highlighted values exceed Recommended Soil Cleanup Objective
- = compound not detected
J = Estimated value
mg/kg = milligrams per kilogram
ND = not detected in background samples
R = Data Rejected

Table B.6: Soil Boring Sample Results

	SAMPLE ID:	RECOMMENDED	MW2G	MW2N	MW3E
	DEPTH:	SOIL CLEAN-UP	10-14'	20-28'	2-8'
	LAB ID:	OBJECTIVE	3090504	3091101	3096801
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD5	SHD5	SHD6
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		3/27/97	3/28/97	4/03/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
1,2-Dichloroethene (total)	mg/Kg	0.3	-	-	0.002 J
Methylene Chloride	mg/Kg	0.1	0.004 J	-	-
Trichloroethene	mg/Kg	0.7	-	-	0.028 J
Total VOCs*	mg/Kg	10	0.004	0	0.03
SEMIVOLATILES					
bis(2-Ethylhexyl)phthalate	mg/Kg	50	-	0.079 J	0.1 J
Total SVOCs*	mg/Kg	500	-	0.079	0.1
PESTICIDES/PCBs					
Methoxychlor	mg/Kg	10	-	-	-
Total Pesticides*	mg/Kg	10			
INORGANICS					
Aluminum	mg/Kg	16200	13100	17900	12600 J
Antimony	mg/Kg	1.6	0.98 J	1.8 J	2 J
Arsenic	mg/Kg	7.9	7.9	10.6 J	7.8 J
Barium	mg/Kg	300	99.2 J	163 J	160 J
Beryllium	mg/Kg	0.6	0.55	0.73	0.47 J
Calcium	mg/Kg	1135	50300 J	5510 J	1590 J
Chromium	mg/Kg	21.85	17.6 J	24.1 J	17.2 J
Cobalt	mg/Kg	30	11.3 J	16.8 J	10.8 J
Copper	mg/Kg	25	18.3	23.2	20 J
Iron	mg/Kg	33550	29200 J	40000 J	27200
Lead	mg/Kg	14.3	9.5	16.6	17.3 J
Magnesium	mg/Kg	6085	9070 J	7000 J	4130 J
Manganese	mg/Kg	918	675 J	584 J	616 J
Mercury	mg/Kg	0.1	-	-	-
Nickel	mg/Kg	34.5	26.6 J	37.6 J	25.4 J
Potassium	mg/Kg	1270	1970	2220	1720
Sodium	mg/Kg	167	181 J	146 J	298 J
Thallium	mg/Kg	ND	-	-	-
Vanadium	mg/Kg	150	18.2 J	24 J	18.4 J
Zinc	mg/Kg	69.25	57.7 J	83.9 J	87.2 J
Total Cyanide	mg/Kg	***	-	-	-

Notes:
1. See Tables 1.2 and 1.3 for information on how recommended cleanup objectives were derived.
Highlighted values exceed Recommended Soil Cleanup Objectiv
- = compound not detected
J = Estimated value
mg/kg = milligrams per kilogram
ND = not detected in background samples
R = Data Rejected

Table B.6: Soil Boring Sample Results

			DUP of MW3E		
	SAMPLE ID:	RECOMMENDED	MW3D	MW4C	MW4J
	DEPTH:	SOIL CLEAN-UP	2-8'	4-6'	16-20'
	LAB ID:	OBJECTIVE	3096804	3093901	3093902
	SOURCE:	(see Note 1)	NYTEST	NYTEST	NYTEST
	SDG:		SHD6	SHD5	SHD5
	MATRIX:		SOIL	SOIL	SOIL
	SAMPLED:		4/03/97	3/31/97	3/31/97
	VALIDATED:		7/25/97	7/25/97	7/25/97
COMPOUND	UNITS:				
VOLATILES					
1,2-Dichloroethene (total)	mg/Kg	0.3	0.002 J	-	-
Methylene Chloride	mg/Kg	0.1	-	0.007 J	0.008 J
Trichloroethene	mg/Kg	0.7	0.021 J	-	-
Total VOCs*	mg/Kg	10	0.023	0.007	0.008
SEMIVOLATILES					
bis(2-Ethylhexyl)phthalate	mg/Kg	50	0.058 J	R	R
Total SVOCs*	mg/Kg	500	0.058	0	0
PESTICIDES/PCBs					
Methoxychlor	mg/Kg	10	-	-	-
Total Pesticides*	mg/Kg	10			
INORGANICS					
Aluminum	mg/Kg	16200	4880 J	14400	11800
Antimony	mg/Kg	1.6	1.6 J	2 J	0.55 J
Arsenic	mg/Kg	7.9	1.9 J	9.6 J	6.6 J
Barium	mg/Kg	300	24.9 J	95.8 J	87 J
Beryllium	mg/Kg	0.6	0.38 J	0.57	0.46 J
Calcium	mg/Kg	1135	1540 J	1490 J	22200 J
Chromium	mg/Kg	21.85	11.2 J	19.4 J	15.8 J
Cobalt	mg/Kg	30	4.3 J	13.1 J	10.8 J
Copper	mg/Kg	25	7.9 J	20.2	17.9
Iron	mg/Kg	33550	19500	31100 J	25300 J
Lead	mg/Kg	14.3	4.1 J	10.8	9.4
Magnesium	mg/Kg	6085	2040 J	5140 J	7650 J
Manganese	mg/Kg	918	97.3 J	586 J	504 J
Mercury	mg/Kg	0.1	0.05 J	-	0.06 J
Nickel	mg/Kg	34.5	7.9 J	31.3 J	25.5 J
Potassium	mg/Kg	1270	1130	1470	1550
Sodium	mg/Kg	167	293 J	77.5 J	145 J
Thallium	mg/Kg	ND	-	0.77 J	-
Vanadium	mg/Kg	150	20.2 J	19.5 J	16.1 J
Zinc	mg/Kg	69.25	24.6 J	70 J	57.6 J
Total Cyanide	mg/Kg	***	-	2.23	-

Notes:
1. See Tables 1.2 and 1.3 for information on how recommended cleanup objectives were derived.

Prepared/Date: RTB 10/20/05
Checled/Date: MJS 10/20/05

Highlighted values exceed Recommended Soil Cleanup Objectiv
- = compound not detected
J = Estimated value
mg/kg = milligrams per kilogram
ND = not detected in background samples
R = Data Rejected

APPENDIX A

PHOTOGRAPHS

Appendix A contains photographs of the South Hill Dump Site from a site visit on April 28, 2005. This information is offered for consideration when planning the remedial work.

Photo 37 - View of drums in fenced area from below embankment

Photo 38 - View of farm field across South Hill Road

Photo 39 - View of drums in fenced area from South Hill Road

Photo 40 - View of additional drums in fenced area from South Hill Road

Photo 41 - View of flat area NE/E of fenced area

Photo 42 - View of flat area looking E from landfill road

Photo 43

Photo 44

Photo 45

Photo 46

Photo 47

Photo 48

Photo 49

Photo 50

Photo 51

Photo 52

Photo 53

Photo 54

Photo 55

Photo 56

Photo 57

Photo 58

Photo 59

Photo 60

Photo 61

Photo 62

Photo 63

Photo 64

Photo 65

Photo 66

Photo 67

Photo 68

Photo 69

Photo 70

Photo 71

Photo 72

Photo 73

Photo 74

Photo 75

Photo 76

Photo 77

Photo 78

Photo 79

Photo 80

Photo 81

Photo 82

Photo 83

Photo 84

Photo 85

Photo 86

Photo 87

Photo 88

Photo 89

Photo 90

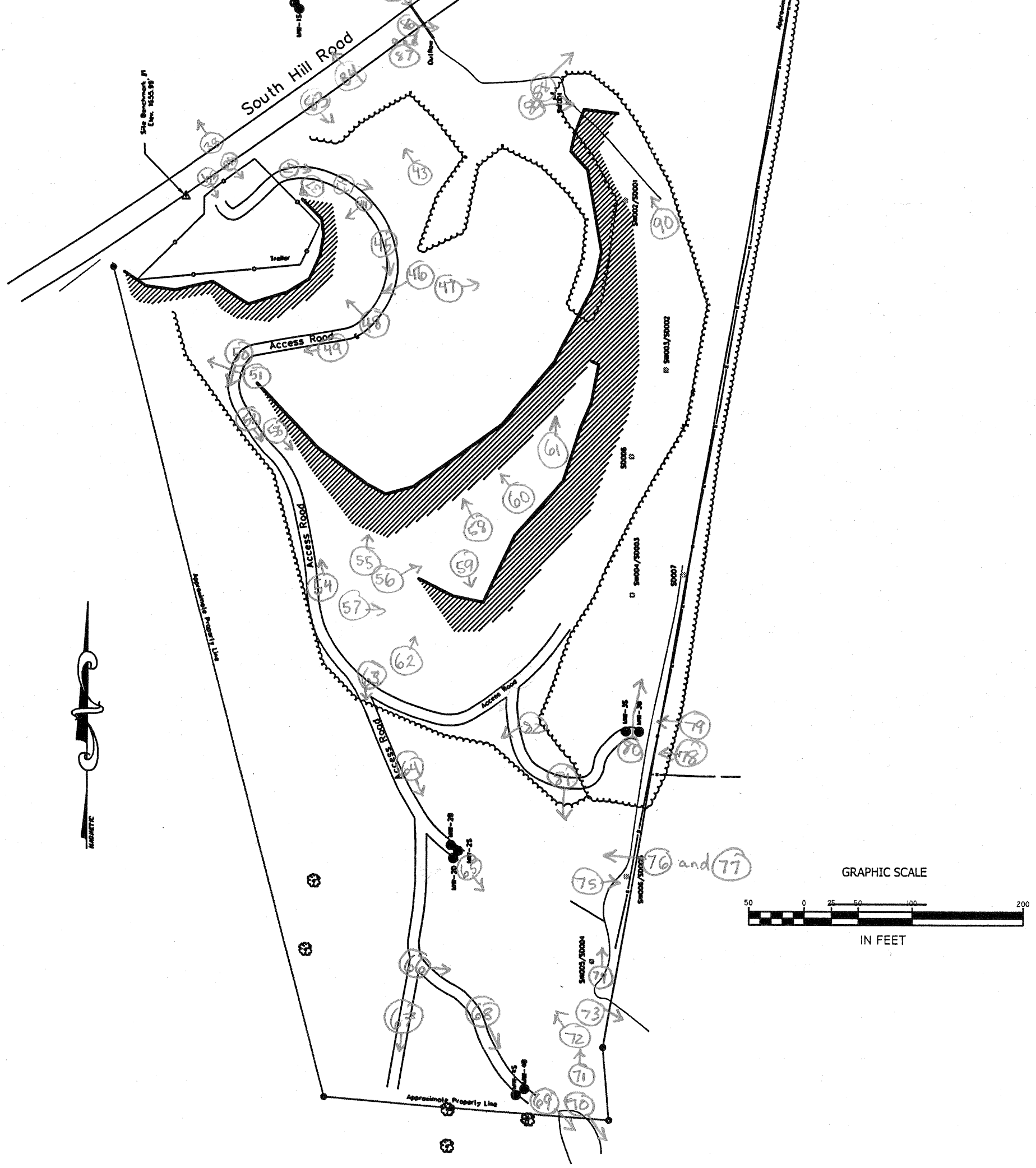


PHOTO LOG: SOUTH HILL DUMP

DATE: APRIL 28, 2005

○ LOCATION OF PHOTOGRAPHER

→ DIRECTION FACING

15 PICTURE NO., REFER TO SKETCH AND TABLE OF CONTENTS FILE.

SOUTH HILL DUMP
CORTLANDVILLE, CORTLAND COUNTY, NEW YORK
SITE NO. 7-12-009

New York State Department of Environmental Conservation

FILE:

DRAWING: DRAWN FROM SPENCER F. THEW, PE - LS BASE MAP BY: BAB

MONITORING WELLS AND SAMPLE LOCATIONS

APPENDIX B

SITE SURVEY

Appendix B contains the site survey prepared by Popli Consulting Engineers and Surveyors at the South Hill Dump Site in January 2010. This information is offered for consideration when planning the remedial work.

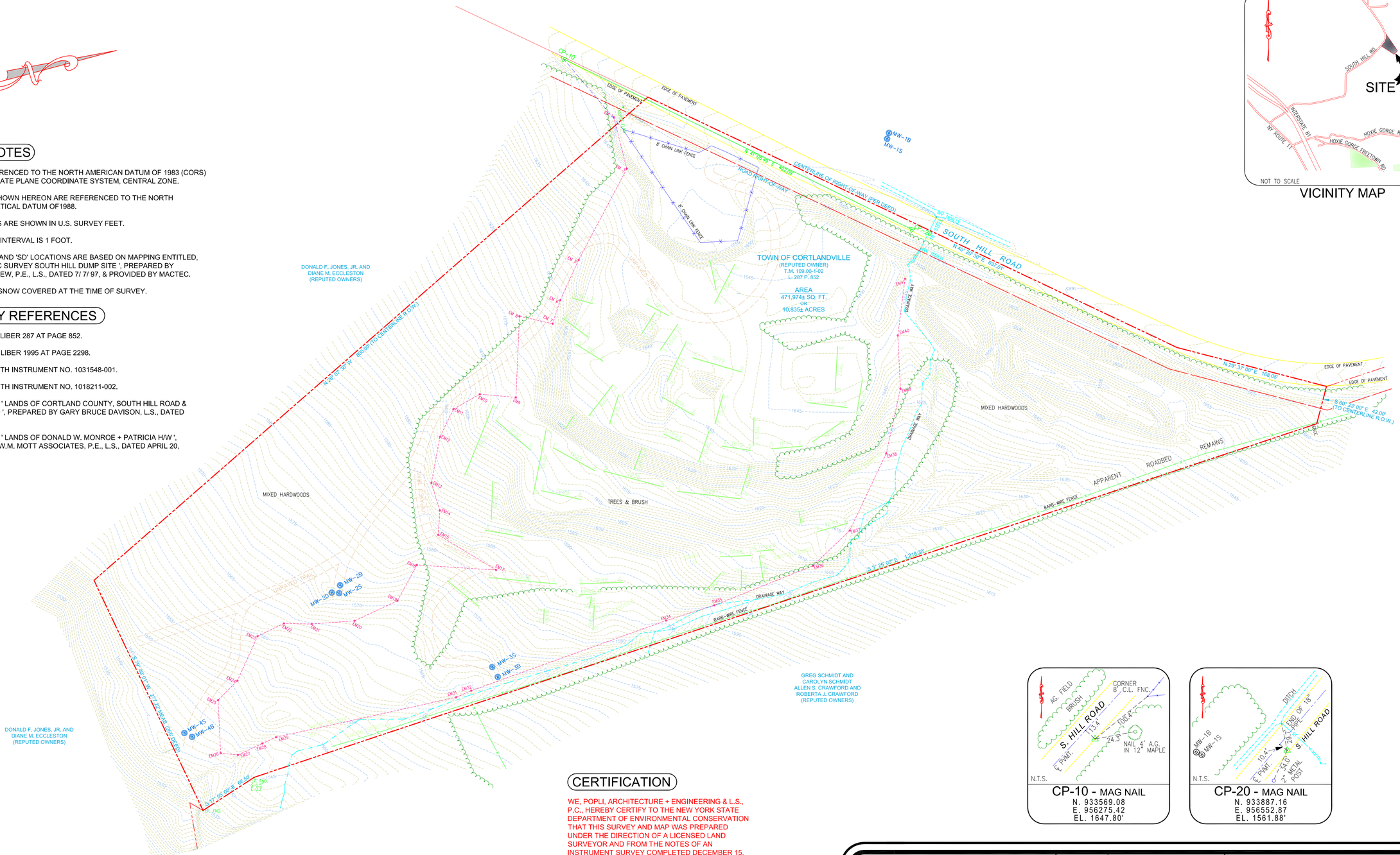
GRID NORTH

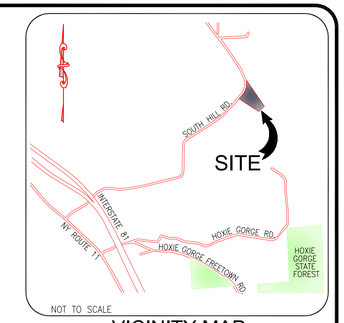
SURVEY NOTES

1. MAPPING REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (CORS) - NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE.
2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF1988.
3. MAPPING UNITS ARE SHOWN IN U.S. SURVEY FEET.
4. THE CONTOUR INTERVAL IS 1 FOOT.
5. TEST PIT, 'SW' AND 'SD' LOCATIONS ARE BASED ON MAPPING ENTITLED, ' TOPOGRAPHIC SURVEY SOUTH HILL DUMP SITE ', PREPARED BY SPENCER F. THEW, P.E., L.S., DATED 7/ 7/ 97, & PROVIDED BY MACTEC.
6. THE SITE WAS SNOW COVERED AT THE TIME OF SURVEY.

BOUNDARY REFERENCES

1. DEED, FILED IN LIBER 287 AT PAGE 852.
2. DEED, FILED IN LIBER 1995 AT PAGE 2298.
3. DEED, FILED WITH INSTRUMENT NO. 1031548-001.
4. DEED, FILED WITH INSTRUMENT NO. 1018211-002.
5. MAP ENTITLED, ' LANDS OF CORTLAND COUNTY, SOUTH HILL ROAD & MONROE ROAD ', PREPARED BY GARY BRUCE DAVISON, L.S., DATED JULY 28, 1993.
6. MAP ENTITLED, ' LANDS OF DONALD W. MONROE + PATRICIA H/W ', PREPARED BY W.M. MOTT ASSOCIATES, P.E., L.S., DATED APRIL 20, 1976.





VICINITY MAP

CP-10 - MAG NAIL
N. 933569.08
E. 956275.42
EL. 1647.80'

CP-20 - MAG NAIL
N. 933887.16
E. 956552.87
EL. 1561.88'

CERTIFICATION

WE, POPLI, ARCHITECTURE + ENGINEERING & L.S., P.C., HEREBY CERTIFY TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION THAT THIS SURVEY AND MAP WAS PREPARED UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR AND FROM THE NOTES OF AN INSTRUMENT SURVEY COMPLETED DECEMBER 15, 2009 AND THE REFERENCES LISTED HEREON. THIS SURVEY IS SUBJECT TO ANY EASEMENTS AND/OR ENCUMBRANCES AN UP-TO-DATE ABSTRACT OF TITLE MAY REVEAL, AS NONE WAS PROVIDED.

STATE OF NEW YORK
MICHAEL ANTHONY VENTURO
S0079
LICENSED LAND SURVEYOR

1/20/2010

LEGEND

- TEST PIT
- SW/SD SAMPLE POINT
- MONITORING WELL
- EM FLAG (CHAIN OF FLAGS BOUND THE DEBRIS ON SITE)
- TREE LINE
- STORM DRAIIN PIPE W/ INVERT ELEVATIONS (INV. 1659.XX)

SURVEY BY:
POPLI DESIGN GROUP
ARCHITECTURE + ENGINEERING
555 Pembroke Drive
Penfield NY 14526

PREPARED FOR:
MACTEC

SURVEYOR JOB NUMBER:	3282.07
SURVEY CREW:	J. PHILLIPS, W. STRATTON
DRAWN BY:	J. PHILLIPS
CHECKED BY:	M. VENTURO
REVISIONS	

BOUNDARY & TOPOGRAPHIC MAP

FOR THE
NEW YORK STATE D.E.C.
FORMER SOUTH HILL DUMP SITE

Being part of Lot #100
Town of Cortlandville, County of Cortland, State of New York

DATE: JANUARY 20, 2010
SCALE: 1" = 50'
SHEET: 1 OF 1

APPENDIX C

INACTIVE HAZARDOUS WASTE DISPOSAL SITES DATABASE SITE SUMMARY

Appendix C contains a site summary for the South Hill Dump Site provided by the NYSDEC's Inactive Hazardous Waste Disposal Sites Database dated March 17, 2005. This information is offered for consideration when planning the remedial work.

New York State Department of Environmental Conservation

Inactive Hazardous Waste Disposal Sites Database Search

More information:

Environmental Remediation Databases
Glossary of Hazardous Waste Sites Database Terms

More searches:
New Inactive Hazardous Waste Disposal Sites Database Search

Other Links of Interest...

Site Record

Administrative Information

Site Name: Rosen Site (a.k.a. Scrap King, Inc.)
Site Code: 712004
Classification: 02
EPA ID Number:

Location

DEC Region: 7
Address: Pendleton Street
City: Cortland **Zip:** 13045
County: Cortland
Latitude: 42:35:30 **Longitude:** 76:10:29
Site Type: DUMP
Estimated Size: 20 Acres

Site Owner(s)

Current Owner Name: PHILLIP ROSEN
Current Owner(s) Address: PENDLETON STREET
CORTLAND ,NY 13045

Site Owner(s)

Current Owner Name: Philip Rosen
Current Owner(s) Address: 107 Avon Court
Slidell ,LA 70461

Site Owner(s)

Current Owner Name: PHILLIP ROSEN
Current Owner(s) Address: 107 AVON COURT
SLIDELL ,LA 70461
Owner(s) during disposal: PHILLIP ROSEN
Operator during disposal: PHILLIP ROSEN
Stated Operator(s) Address: 129 PORT WATSON
CORTLAND ,NY 13045
Operator during disposal: Wickwire Brothers, Inc.
Stated Operator(s) Address: Pendleton Street
Cortland ,NY 13045
Operator during disposal: PHILLIP ROSEN
Stated Operator(s) Address: PENDLETON STREET
CORTLAND ,NY 13045
Operator during disposal: Phillip Rosen
Stated Operator(s) Address: 129 Port Watson
Cortland ,NY 13045
Hazardous Waste Disposal Period From: 1975 **To:** 1985

Site Description:

The Rosen site is a closed scrap yard where construction & demolition (C & D) waste and other items were dumped. Car crushing was one of the major operations here. Some of the wastes included old tires, drums (some marked as pesticides and paints), piles of metal shavings and other unknown industrial & municipal wastes. Prior to the Rosen's business, the property was operated by the Wickwire Brothers Company. They manufactured wire screens until 1970 when the factory burned to the ground. While they were in business, they dumped industrial waste on site. The site overlies an the aquifer that supplies drinking water for the City of Cortland. It is the sole source of drinking water for approximately 24,000 people. Inspections have noted that some waste has been pushed into a creek on the site. Some of the soil on the property was saturated with fouled fluids from the old car crushing operation, as well as leaking drums of 1,1,1-Trichloroethane (1,1,1-TCA). A Phase II Investigation was completed in May of 1987. Groundwater sampling

revealed contamination. The USEPA conducted a removal action at the end of the 1990 construction season in which all containerized wastes on site were removed & taken to an approved disposal site. The area was fenced to restrict access. The PRPs signed a Consent Order (CO) with the USEPA for a Remedial Investigation/Feasibility Study (RI/FS). The completed RI identified significant levels of chlorinated solvents, primarily 1,1,1-TCA, in on-site soils, groundwater and in the groundwater that is off-site and downgradient. PCBs, heavy metals and polynuclear aromatic hydrocarbons (PAHs) were also found in portions of the on-site soils. The source locations are uncertain. The final RI report was submitted in May of 1994. A Record of Decision (ROD) was signed in March of 1998. The ROD calls for a soil cap over the entire site, consolidation of the C&D waste and contaminated soils and materials into the "cooling pond" area, and placing a Part 360 cap over this area. The Remedial Design (RD) was completed in 2002. Construction is underway.

Confirmed Hazardous Waste Disposal Type and Quantity:

Type of Waste	Quantity of Waste
DRUMS (POSSIBLY CONTAINING PAINT AND OR PESTICIDES)	UNKNOWN
WASTE FLUIDS FROM THE CAR CRUSHING OPERATION	UNKNOWN
TRANS 1,1-DICHLOROETHANE	UNKNOWN
CIS 1,2-DICHLOROETHANE	UNKNOWN
1,1,1-TRICHLOROETHANE (TCA)	UNKNOWN
TETRACHLOROETHANE (PCE OR "PERC.")	UNKNOWN

Assessment of Environmental Problems:

Extensive sections of the property are covered with municipal waste. Some sections of soil are saturated with contaminated fluids from the car crushing operation.

Assessment of Health Problems:

Groundwater at the site is contaminated, but the area is served by public water so ingestion of contaminated

groundwater is not a concern. The site is fenced and secured so access is unlikely. Presently, there are no known exposures to site contaminants.

The information in this record also appears each year in the annual report, *Registry of Inactive Hazardous Waste Disposal Sites in New York State*. If you have questions regarding the information in this database, please contact the Department at (518) 402-9553 for further assistance.

Other Links of Interest

Priority Classification definitions of the site classification codes used in the inactive hazardous waste disposal records

Information about the Inactive Hazardous Waste Disposal Site Program

Phone Numbers for Environmental Site Remediation

APPENDIX D

SELECTED APPENDICES FROM REMEDIAL INVESTIGATION REPORT

Appendix D contains groundwater elevation data, vertical groundwater gradients, test pit logs, well installation boring logs, and well construction logs from the Final Remedial Investigation Report for the South Hill Dump Inactive Hazardous Waste Disposal Site by NYSDEC (July 2003). This information is offered for consideration when planning the remedial work.

GROUNDWATER ELEVATION DATA
SOUTH HILL DUMP SITE
CORTLANDVILLE TOWNSHIP, NEW YORK

WELL	GROUND SURFACE ELEVATION (feet)	REFERENCE ELEVATION (feet)	SCREEN/OPEN HOLE DEPTH		SCREEN/OPEN HOLE ELEVATION		DATE: 5/22/97		DATE: 6/11/97	
			TOP (feet)	BOTTOM (feet)	TOP (feet)	BOTTOM (feet)	DEPTH TO WATER (ft. below Ref.)	WATER ELEVATION (feet)	DEPTH TO WATER (ft. below Ref.)	WATER ELEVATION (feet)
MW-1S	1668.1	1670.95	5.0	15.0	1663.10	1653.10	10.26	1660.69	12.88	1658.07
MW-1B	1668.5	1671.35	25.0	35.0	1643.50	1633.50	22.22	1649.13	23.03	1648.32
MW-2S	1572.6	1575.45	5.0	10.0	1567.60	1562.60	12.02	1563.43	10.97	1564.48
MW-2D	1572.0	1575.00	14.0	24.0	1558.00	1548.00	16.18	1558.82	11.38	1563.62
MW-2B	1573.4	1574.85	31.5	41.5	1541.90	1531.90	10.06	1564.79	12.45	1562.40
MW-3S	1568.3	1571.15	5.0	10.0	1563.30	1558.30	4.04	1567.11	4.70	1566.45
MW-3B	1567.3	1570.20	16.0	26.0	1551.30	1541.30	4.24	1565.96	5.56	1564.64
MW-4S	1542.6	1545.40	6.0	16.0	1536.60	1526.60	5.48	1539.92	8.67	1536.73
MW-4B	1541.9	1545.45	36.0	46.6	1505.90	1495.30	27.09	1518.36	28.00	1517.45

VERTICAL GRADIENTS
SOUTH HILL DUMP SITE
CORTLANDVILLE, NEW YORK

WELL PAIR	UPPER WELL TOP SCREEN ELEVATION (feet)	LOWER WELL TOP SCREEN ELEVATION (feet)	DATE: 5/22/97			DATE: 6/11/97		
			UPPER WATER ELEVATION (feet)	LOWER WATER ELEVATION (feet)	VERTICAL* GRADIENT (feet/foot)	UPPER WATER ELEVATION (feet)	LOWER WATER ELEVATION (feet)	VERTICAL* GRADIENT (feet/foot)
MW-1S/1B	1663.1	1643.5	1660.69	1649.13	-0.672	1658.07	1648.32	-0.669
MW-2S/2D	1567.6	1558.0	1563.43	1558.82	-0.849	1564.48	1563.62	-0.133
MW-2S/2B	1567.6	1541.9	1563.43	1564.79	0.063	1564.48	1562.40	-0.092
MW-2D/2B	1558.0	1541.9	1558.82	1564.79	0.371	1563.62	1562.40	-0.076
MW-3S/3B	1563.3	1551.3	1567.11	1565.96	-0.096	1566.45	1564.64	-0.151
MW-4S/4B	1536.6	1505.9	1539.92	1518.36	-0.702	1536.73	1517.45	-0.628

* If the water level in the upper well was above the top of the upper well screen, then the vertical distance between water level measurements was calculated using the elevation of the top of the upper well screen. Otherwise, the upper water level elevation was used. Positive gradients indicate upward flow.

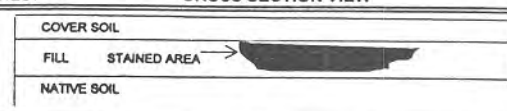
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	February 26, 1997 / 1315
DATE/TIME FINISH:	February 26, 1997 / 1330
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-1

LOCATION: Upper level, north of Mound 1.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - gray sand, some stone.	
2	2 ft	
3	FILL - brown sand, metal cans, plastic, drum fragments.	Drum fragment PID: 0.0 ppm
4		
5	FILL - as above with wood, concrete, burned cans, oil filter, washing machine. Encountered black stained area approx. 15 feet from west edge of trench.	
6		
7	7.5 ft	
8	NATIVE SOIL - CLAY, some silt, trace fine gravel, brown-gray, soft, damp.	
9	9 ft	
10	Trench terminated at 9 feet bgs.	
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 32 feet x 5 feet x 9 feet

Analytical samples collected: TP-01-01 - from stained area 17 feet from west end of trench and 5 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

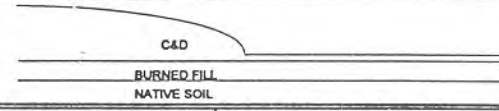
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-2

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	February 26, 1997 / 1533
DATE/TIME FINISH:	February 26, 1997 / 1550
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, across Mound 1.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	C & D FILL - mounded brown silt and stone, some asphalt debris.	Excavating from top of mound.
2		
3		
4		
5		
6		
7		
8		At base of mound, level with surrounding grade.
9	9 ft	
10	FILL - Remnants of burned debris, metal scraps, glass bottles, and muffler.	
11		
12		
13		
14		
15		
16		
17	17 ft	
18	NATIVE SOIL - CLAY and SILT. Trench terminated at 17 feet bgs.	
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 25 feet x 10 feet x 17 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

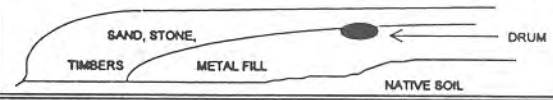
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-3

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Rain, 40s
DATE/TIME START:	February 27, 1997 / 0905
DATE/TIME FINISH:	February 27, 1997 / 1019
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, northwest corner.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL (on slope) - brown silt, sand, stone, timbers, and carpet.	
2	FILL (on top of slope) - tires, concrete slabs, and white metal.	
3	Intact, rusted drum excavated from 20 feet east of top of slope and overpacked.	Drum ID: TP-3-D1 Drum opened 3/20/97. PID: 29 ppm LEL: 4% Contents: Approx. 1 inch of ice. Unable to collect sample.
4	FILL - metal piping and sheets, car bumper and axle, empty crushed corroded drum and several drum lids.	
5		
6		
7		
8	8 ft	
9	NATIVE SOIL - Brown CLAY and SILT 9 ft	
10	Trench terminated at 9 feet bgs.	
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 25 feet x 13 feet x 9 feet

Analytical samples collected: TP-03-01 - soil below excavated drum 20 feet from top of slope and 3 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

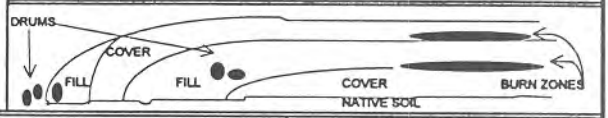
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-4

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Breezy, 45 degrees
DATE/TIME START:	February 27, 1997 / 1100
DATE/TIME FINISH:	February 27, 1997 / 1141
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, west slope.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - gray sand, some stone and concrete slabs.	Three empty drums observed at base of slope.
2	FILL (on slope) - brown silt, sand, stone, timbers, sofabed, water heater, metal bands and rod fragments, corroded drum containing small amount of soil .	Fill on slope overlays cover. No elevated PID reading from corroded drum.
3	FILL - metal piping, straps, and sheets, scattered crushed corroded drum carcasses.	
4	Evidence of burn and cover layering on eastern portion of trench.	
5		
6		
7	Open drum 15 feet from base of slope containing trash (paper, fabric, some soil).	
8		
9		
10		
11	11 ft	
12	NATIVE SOIL - Brown CLAY and SILT Trench terminated at 11 feet bgs.	
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 37 feet x 14 feet x 11 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

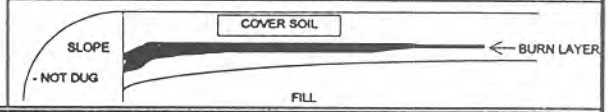
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-5

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, windy, 50s
DATE/TIME START:	February 27, 1997 / 1425
DATE/TIME FINISH:	February 27, 1997 / 1450
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, western portion south of Mound 1. Excavation began at top of slope to west.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
1	COVER SOIL - sand, silt, stone, and concrete slabs.		
2			
3			
4		4.0 ft	
5	FILL - Layer of black burned debris.	4.5 ft	
6	COVER SOIL - sand, silt, and stone.	5.5 ft	
7	FILL - Burned debris including ash, metal scraps, glass bottles, and food wrappers.		
8			
9			
10			
11	Excavation stopped - slope unstable. Native soil not encountered.	11.0 ft	
12	Trench terminated at 11 feet bgs.		
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 40 feet x 9 feet x 11 feet

Analytical samples collected: TP-05-01 - from burn area 20 feet from west end of trench and 4 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

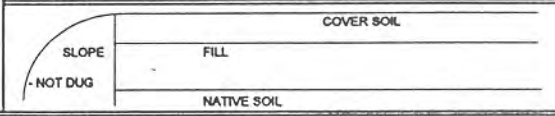
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-6

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, windy, 50s
DATE/TIME START:	February 27, 1997 / 1605
DATE/TIME FINISH:	February 27, 1997 / 1620
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, south of Mound 1.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, stone, and concrete slabs. 1 ft	
2	FILL - Household debris including metal cans, glass bottles, rags, carpet, brick, lumber, wall tiles, and fiberglass insulation.	
3		
4		
5	5 ft	
6	NATIVE SOIL - Brown CLAY and SILT	
7		
8	8 ft	
9	Trench terminated at 8 feet bgs.	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 42 feet x 5 feet x 8 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

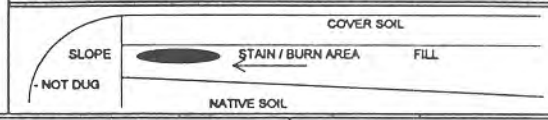
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-7

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	February 28, 1997 / 0845
DATE/TIME FINISH:	February 28, 1997 / 0912
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, along west edge of Mound 2.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
1	COVER SOIL - sand, silt, and stone.		
2			
3			
4			
5	FILL - Metal bands, cans, plastic bottles, and cut limbs.		
6			
7			
8		8 ft	
9	Black stained burn area approx. 5 feet from south end of trench.	8.5 ft	Soil sample PID: 0.5 ppm
10	FILL - Household debris, scrap metal, brick, cinder block, plastic bags and sheeting. Depth of fill increases northward.		
11			
12			
13			
14			
15		15 ft	
16	NATIVE SOIL - Brown CLAY and SILT	16 ft	
17	Trench terminated at approx. 16 feet bgs. Unable to measure due to caving of sidewalls.		
18			
19			
20			
21			
22			

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 34 feet x 9 feet x 16 feet

Analytical samples collected: TP-07-01 - from stained area 5 feet from south end of trench and 8 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

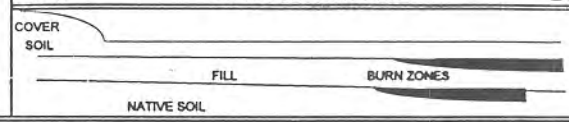
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 40s
DATE/TIME START:	February 28, 1997 / 1015
DATE/TIME FINISH:	February 28, 1997 / 1040
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-8

LOCATION: Center of Upper level, east of Mound 2.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, and stone.	Excavating from top of mound.
2		
3		
4		At base of mound, level with surrounding grade.
5	5 ft	
6	FILL - Household debris, scrap metal, ash, rags, tires, plastic bags and sheeting.	Increase in ash concentration to east.
7	Drum lid approx. 25 feet from west edge of trench.	Hydrocarbon (fuel oil) odor noted on excavated soils, but no elevated PID readings.
8	Evidence of burn and cover layering on eastern portion of trench.	
9		
10		Newspaper dated September 4, 1969 found on excavated soil pile.
11		
12		
13	13 ft	
14	NATIVE SOIL - Brown CLAY and SILT Trench terminated at 13 feet bgs.	
15		
16		
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 44 feet x 5 feet x 13 feet

Analytical samples collected: TP-08-01 - from ash with hydrocarbon odor 2 feet deep from east end of trench.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

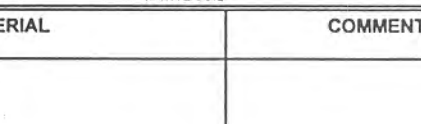
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-9

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 40s
DATE/TIME START:	February 28, 1997 / 1130
DATE/TIME FINISH:	February 28, 1997 / 1145
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, east of Mound 2, near slope to Level 2.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, and stone, trash (bottle, cans).	
2		
3		
4	4 ft	
5	COVER SOIL and FILL - sand, silt, and stone, trash . Fill includes sheet metal, bagged household trash, bottles, and plastic containers.	
6		
7	7 ft	
8	FILL - concentrated layer of bagged household trash, bottles, and plastic contaners.	
9		
10		
11	11 ft	
12	NATIVE SOIL - Brown CLAY, some silt and fine-medium gravel (TILL).	
13		
14		
15	15 ft	
16	Trench terminated at 15 feet bgs.	
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 19 feet x 10 feet x 15 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

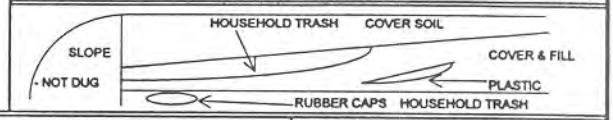
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-10

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 50s
DATE/TIME START:	February 28, 1997 / 1345
DATE/TIME FINISH:	February 28, 1997 / 1415
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, on flat eastern portion.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, stone, railroad ties, timbers, and piping.	
2	Culvert pipe section 20 feet from south end of trench.	
3		
4		
5		
6	6 ft	
7	FILL - concentrated layer of bagged household trash, bottles, cans, cloth, and cooking utensils.	Layer slopes north to south.
8	8 ft	
9	COVER SOIL and FILL - sand, silt, and stone with trash .	
10		
11		
12	12 ft	
13	FILL - concentrated layer of white plastic brackets used to hold molded parts. 13 ft	Layer slopes north to south. Similar pieces found in other test pits with typewriter keys attached.
14	COVER SOIL and FILL - sand, silt, and stone with little-some trash .	
15	Pile of small rubber caps approx. 15 feet from south end of trench. 15 ft	
16	Slope unstable - unable to continue. Trench terminated at 15 feet bgs. Native soil not encountered.	
17		
18		
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 36 feet x 13 feet x 15 feet

Analytical samples collected: TP-10-01 - near rubber caps 15 feet from south end of trench and 15 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

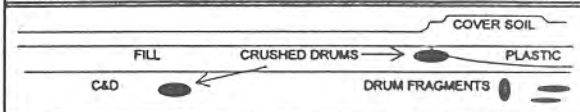
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-11

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 50s
DATE/TIME START:	February 28, 1997 / 1450
DATE/TIME FINISH:	February 28, 1997 / 1520
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, on flat eastern portion.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - mounded sand, silt, and stone.	Excavating from top of mound which was later moved in order to access Test Pit 19.
2	2 ft	
3	COVER SOIL - gray-blue clay.	At base of mound, level with surrounding grade. Clay PID: 0.8 ppm
4	4 ft	
5	FILL - household debris, metal cans, and charred wood fragments. Crushed drum found 8 feet from north end of trench.	Crushed drum PID: 0.5 ppm
6	Concentrated layer of white plastic brackets used to hold molded parts at start of trench. 6 ft	Similar pieces found in other test pits with typewriter keys attached.
7	FILL - gray clay mixed with C&D debris.	
8		
9		
10		
11		
12		
13	Crushed drum found 20 feet from north end of trench.	Crushed drum PID: 0.5 ppm
14		
15		
16	Corroded drum fragments found 5 feet from north end of trench.	Drum fragment PID: 1.0 ppm
17	Slope unstable - unable to continue excavation. 17 ft	
18	Trench terminated at 17 feet bgs. Native soil not encountered.	
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 34 feet x 5 feet x 17 feet

Analytical samples collected: TP-11-01 - stained area near crushed drum 20 feet from north end, 12 feet deep.
TP-11-02 - from gray-blue clay 3 feet from north end of trench and 4 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

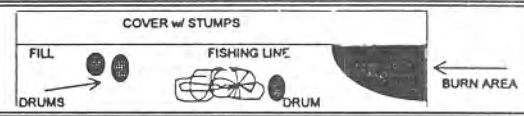
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	March 3, 1997 / 1114
DATE/TIME FINISH:	March 3, 1997 / 1415
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-12

LOCATION: Upper level, on flat eastern portion.

EAST — CROSS SECTION VIEW — WEST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, stone and tree stumps.	
2		
3		
4		
5		
6		
7		
8		
9	9 ft	
10	FILL - Household debris in plastic bags, carpet, metal cans, glass bottles, and lumber.	Water leaking from trash. Slight sheen
11	Fill on western portion of trench is burned and mostly ash.	
12	Two crushed drums containg a resinous substance found 12 feet from east end of trench.	Crushed drum PID: 1.0 ppm
13		
14	Large amount (multiple excavator buckets) of fishing line.	
15	Several small green plastic beads, typewriter ribbon, and plastic parts labelled "Smith-Corona" 15 feet from east end of trench.	Bucket scoop PID: 1.7 ppm
16	Burned, crushed drum found 16 feet from east end of trench.	Crushed drum PID: 2.7 ppm
17	Slope unstable - unable to continue excavation. 17 ft	
18	Trench terminated at 17 feet bgs. Native soil not encountered.	
19		
20		
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 32 feet x 11 feet x 17 feet

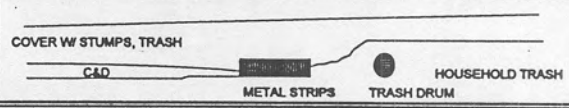
Analytical samples collected: TP-12-01(DUP. ID:TP-12-11) - stained soil from center of trench 17 feet deep.

Downwind air monitoring results: PID: 1.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump	**TEST PIT ID: TP-13**	
PROJECT NUMBER:	729396.02000	LOCATION:	Upper level, on flat eastern portion.
WEATHER	Partly sunny, 30s		
DATE/TIME START:	March 3, 1997 / 1542		
DATE/TIME FINISH:	March 3, 1997 / 1621		
CONTRACTOR:	Marcor Environmental		
INSPECTOR:	N.A. Smith		

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, stone and tree stumps.	
2		
3		
4	4 ft	
5	FILL - household debris in bags mixed in cover soil. Includes bottles, cans, plastic, red ribbons, tires.	Increase in trash proportion to north.
6		
7	Crushed drum 20 feet from south end containing trash (bottles, food wrappers, some soil).	Crushed drum PID: 5.0 ppm
8		
9	C & D FILL - lumber, metal bands, concrete. Several hundred white metal strips approx. 1/4 inches wide by 1 foot long found 15 feet from south end.	
10		
11	Fill on northern portion is bagged household trash.	
12		Found on excavated soil pile: Newspapers dated December 13, 1970 and January 14, 1971; Stack of Smith Corona "Project Status Summaries" and timesheets dated from March 13, 1969 to May 12, 1969.
13		
14		
15		
16	Slope unstable - unable to continue excavation. 16 ft	
17	Trench terminated at 16 feet bgs. Native soil not encountered.	
18		
19		
20		
21 21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 29 feet x 9 feet x 16 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

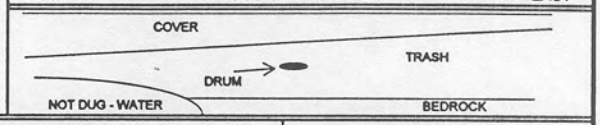
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-14

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Light snow, 30s
DATE/TIME START:	March 4, 1997 / 0830
DATE/TIME FINISH:	March 4, 1997 / 0921
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, southeast edge of flat portion.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - silt, sand, stone with scattered stumps and cans.	
2		
3	2 ft FILL - household debris in bags, charcoal lighter fluid can, tires, lumber.	Depth to start of fill increases to 4 ft on west side of trench.
4		
5		
6		
7		
8		
9	FILL - household debris in bags mixed in gray clay cover soil, stone, and concrete slabs.	
10		
11	Flattened drum 20 feet from west end. Also plastic molds labelled "Smith Corona" with typewriter key shaped holes punched out.	Drum PID: 0.8 ppm
12	Concentrated layer of angled white plastic brackets used to hold molded parts.	Similar pieces found in other test pits with typewriter keys attached.
13		
14	Water entering west end of trench.	
15		
16		
17		
18		
19		
20		
21	21 ft	
22	BEDROCK — Trench terminated at 21 feet bgs.	

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 35 feet x 5 feet x 21 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.4 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

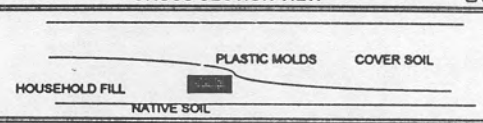
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 30s
DATE/TIME START:	March 4, 1997 / 1000
DATE/TIME FINISH:	March 4, 1997 / 1055
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-15

LOCATION: Upper level, southeast corner of flat portion.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - silt, sand, stone with scattered stumps, plastic, and cans.	
2		
3	3 ft	
4	FILL - household debris in bags, bottles, paint cans, tires, lumber, carpet.	Depth to fill increases to east.
5		
6		Found on excavated soil pile: Newspaper dated February 2, 1972 and a deer carcass.
7		
8		
9	Concentrated layer of angled white plastic brackets used to hold molded parts and plastic molds with typewriter key shaped holes punched out.	
10		
11	Roll of insulation or asbestos wrap.	
12		
13		
14		
15		
16		
17	17 ft	
18	NATIVE SOIL - Till 18 ft	
19	Trench terminated at 18 feet bgs.	
20		
21 21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 42 feet x 6 feet x 18 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

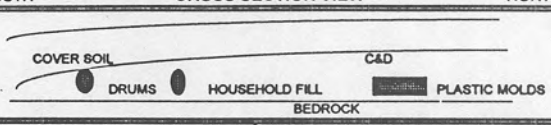
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	March 3, 1997 / 1114
DATE/TIME FINISH:	March 3, 1997 / 1415
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-16

LOCATION: Upper level, east edge of flat eastern portion.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, stone, brown.	
2		
3		
4	4 ft	
5	FILL - wood, blue plastic sheeting, burned material. SAND, tan, approx. 20 feet from south end.	
6	White-tan resin, and gray-green fibrous material mixed with cover soil near south end.	Resin PID: 3 ppm Fiber PID: 8 ppm
7	Half of sheared drum containing similar resin and fibers found 5 feet from south end of trench.	
8	Crushed drum excavated 12 feet from south end and overpacked into 55-gallon drum. Drum contains orange-rust colored soil with glue-type odor.	Drum ID: TP-16-D1 Drum PID: 7.2 ppm
9		
10		
11	FILL - household debris in bags, clothing, magazines, grill top, lumber, carpet on south end.	
12	C & D DEBRIS - wood, fiberglass insulation, plastic sheeting, asbestos(?) wrap to north.	
13	Layer of white plastic brackets used to hold molded parts approx. 25 feet from south end.	
14		
15		
16		
17	17 ft	
18	BEDROCK, water at interface. Trench terminated at 17 feet bgs.	
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 36 feet x 5 feet x 17 feet

Analytical samples collected: TP-16-01 - resin and fibers near crushed drum 5 feet from south end, 5 feet deep.
TP-16-02 - from crushed drum 12 feet from south end of trench.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-17

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 40s
DATE/TIME START:	March 4, 1997 / 1515
DATE/TIME FINISH:	March 4, 1997 / 1600
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, on flat eastern portion.

SOUTH — CROSS SECTION VIEW — NORTH

COVER SOIL
HOUSEHOLD FILL
NATIVE SOIL
BEDROCK

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, and stone.	
2	2 ft	
3	FILL - white plastic brackets, brick, plywood. 3 ft	
4	FILL - household debris in bags, clothing, paper, cardboard, cans, tires, furniture, toys, diapers, food containers, auto and appliance parts.	Found on excavated soil pile: Newspaper dated November 29, 1971
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15	15 ft	
16	NATIVE SOIL - till 16 ft	
17	Trench terminated at 17 feet bgs. 17 ft	
18	BEDROCK - interface dips to 17 feet bgs on south end of trench. Water on top of rock.	
19		
20		
21		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 43 feet x 6 feet x 17 feet

No analytical samples collected.

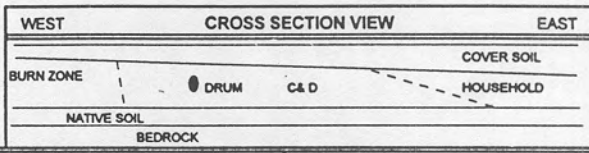
Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-18

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	March 5, 1997 / 0830
DATE/TIME FINISH:	March 5, 1997 / 0927
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, on flat eastern portion.



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, and stumps.	
2	2 ft	
3	FILL - Household debris, cans, rags, clothing, plastic bags, and food containers.	Depth to fill increases to east to 4 feet bgs.
4	Fill is burned on western 7 feet of trench, high ash concentration.	
5		
6		Increase in ash concentration to east.
7	Layer of white, angled plastic brackets on eastern end.	
8	Household demolition materials in center portion of trench. Wallboard, linoleum, shingling, lumber, burlap bags.	
9	Flattened drum 24 feet from east end.	
10	Soil near drum: CLAY, some silt, brown-gray with little black staining.	Soil PID near drum: 26 ppm
11		
12		
13		Newspaper dated November 2, 1971 and magazine dated April 1971 found on excavated soil pile.
14		
15		
16		
17		
18	18 ft	
19	NATIVE SOIL - CLAY, little silt, trace pebbles, gray (TILL). 19 ft	
20	BEDROCK, water at interface. Trench terminated at 19 feet bgs.	
21		
22		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 42 feet x 6 feet x 19 feet

Analytical samples collected: TP-18-01 - adjacent to flattened drum 8 ft deep and 24 ft from east end of trench.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-19

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 40s
DATE/TIME START:	March 5, 1997 / 1035
DATE/TIME FINISH:	March 5, 1997 / 1130
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, on flat eastern portion.

WEST — CROSS SECTION VIEW — EAST

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - gray clay and stone. 1 ft	
2	FILL - bagged household trash, tires, lumber, chimney pipe, auto lights, and plastic angled brackets and typewriter keypad borders.	
3		
4	4 ft	
5	COVER SOIL & FILL - sand, silt, and stone, little trash in eastern half of trench. BURNED FILL - ash, metal fragments, sheet metal, water heater.	
6	Soil in burned area becomes rust collored 42 feet from east end of trench.	
7	Burned, crushed drum 30 feet from east end, empty with greasy coating.	Drum PID: 4.4 ppm
8		
9		
10		
11	Crushed drum fragments 42 feet from east end in rusty soil. Crushed drum 51 feet from east end, has multiple holes.	Drum PID: 3.9 ppm Drum PID: 31 ppm
12		
13	13 ft	
14	NATIVE SOIL - Brown SILT.	
15	15 ft	
16	BEDROCK Trench terminated at 15 feet bgs.	
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 59 feet x 6 feet x 15 feet

Analytical samples collected: TP-19-01 - near crushed drum 42 feet from east end, 10 feet deep.
TP-19-02 - near crushed drum 51 feet from east end, 10 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

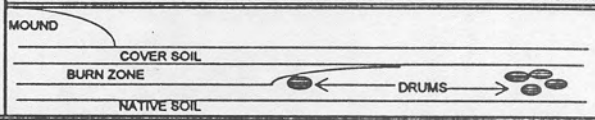
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-20

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 40s
DATE/TIME START:	March 5, 1997 / 1410
DATE/TIME FINISH:	March 5, 1997 / 1615
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, north of Mound 2.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - mounded sand, silt, and stone, brown.	Excavating from top of mound
2		
3		
4		
5		
6		
7	COVER SOIL - clay and stone, gray. 7 ft	At base of mound, level with surrounding grade.
8	FILL - Remnants of burned debris, metal scraps, concrete, plastic sheeting. Four crushed drums 48 feet from south end. Two drums empty, one left undisturbed in bank. Fourth drum contains dark gray-black fine shavings. Surrounding soil is rust-colored. Fill contains burned metal.	
9		Drum PIDs: 23-124 ppm Drums are 1 foot below grade. 3 drums were excavated and overpacked.
10		
11	Crushed drum 40 feet from south end, contains gray sandy material, slightly cemented.	Drum PID: 57 ppm Drum is 4 feet below grade. Drum was excavated and overpacked.
12		
13		
14		
15	Trench terminated at 15 feet bgs. 15 ft	
16	NATIVE SOIL - Brown-gray-olive SAND and SILT.	
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 50 feet x 6 feet x 15 feet

Analytical samples collected: DS-20-01 - from drum 40 feet from south end, 4 feet deep.
DS-20-02 - from drum in nest 48 feet from south end, 1 foot deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

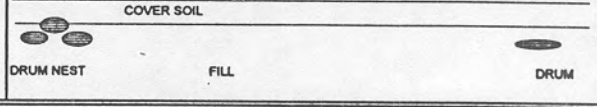
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-21

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Snow, windy, 30s
DATE/TIME START:	March 6, 1997 / 0940
DATE/TIME FINISH:	March 6, 1997 / 1045
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, between mounds.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand and stone, timbers and concrete, gray. Crushed drum found, empty, flattened at north end of trench.	
2	Three crushed drums at south end. Two drums left undisturbed. Third drum is intact with partially legible label: "__NT" "Wilmington Delaware".	Crushed drum PID: 0.0 ppm
3	3 ft	3rd drum was excavated and overpacked. Drum ID: TP-21-D1 Drum opened 3/20/97. PID: 10.8 ppm LEL: 1% Contents: Approx. 2 inches of black oily substance.
4	FILL - Metal scraps, car parts, plastic sheeting.	
5	5 ft	
6	Trench terminated at 5 feet bgs.	
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 30 feet x 6-10 feet x 5 feet

Samples collected: TP-21-01 - soil beolw drum nest at south end of trench, 3 feet deep.

TP-21-D1- from overpacked drum.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

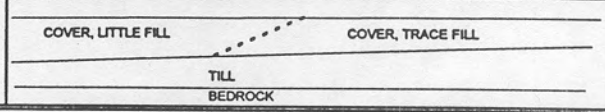
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Snow, windy, 20s
DATE/TIME START:	March 7, 1997 / 0915
DATE/TIME FINISH:	March 7, 1997 / 0945
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-22

LOCATION: Upper level, along access road.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - sand, silt, and stone, trace metal posts and plates, brown.	
2	Increase in metallic fill (cans and bands) in southern half of trench	
3	3 ft	
4	NATIVE SOIL - CLAY, little silt, trace pebbles, gray (TILL).	
5		
6		
7	7 ft	
8	BEDROCK — Trench terminated at 7 feet bgs.	
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 45 feet x 6 feet x 7 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

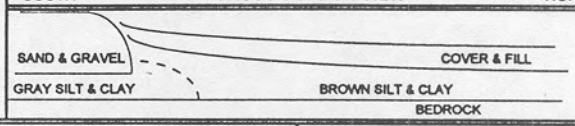
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-23

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Snow, windy, 20s
DATE/TIME START:	March 7, 1997 / 1020
DATE/TIME FINISH:	March 7, 1997 / 1035
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Upper level, on slope to entrance level.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	SAND and GRAVEL, bank run, on slope.	
2	2 ft	
3	FILL - sand, silt, and stone, metal cans and jars.	
4	4 ft	
5	NATIVE SOIL - SILT and CLAY, gray to north, brown to south.	
6		
7	7 ft	
8	BEDROCK Trench terminated at 7 feet bgs.	
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 38 feet x 6 feet x 7 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

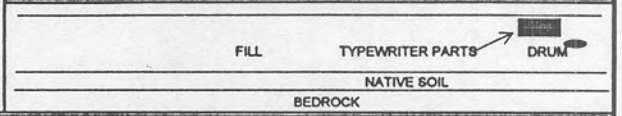
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-24

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	March 7, 1997 / 1320
DATE/TIME FINISH:	March 7, 1997 / 1347
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Second level, on eastern portion.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL & FILL - bagged household trash, bottles, cans. Household building debris (lumber, plastic sheeting, carpet) on west portion of trench.	
2		
3	Typewriter keyboard overlays, white plastic strips, and several briefcase handles at east end of trench.	
4		
5	Flattened, corroded drum at east end of trench containing brown resin and soil.	Drum was overpacked Drum ID: TP-24-D1 Drum PID: 30.2 ppm
6	Fill is predominantly household trash, fabric, tires, white goods.	
7		
8		
9		
10		
11	Hot water heater	
12		
13	13 ft	
14	SILT and CLAY, gray. 14 ft	
15	BEDROCK, water at interface. Trench terminated at 14 feet bgs.	
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 41 feet x 6 feet x 14 feet

Analytical samples collected: TP-24-01 - resin from crushed drum at east end, 4 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

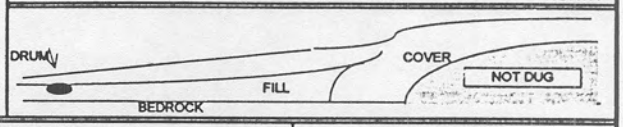
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	March 7, 1997 / 1455
DATE/TIME FINISH:	March 7, 1997 / 1520
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-25

LOCATION: Slope between upper and second levels.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - silt, stone, stumps.	
2		
3		
4		
5	5 ft	
6	FILL - bagged trash, fabric, wheel housing, typewriter keyboard debris, and white plastic mold brackets.	Fill begins at mid-slope
7	Empty crushed drum at base of slope.	Drum PID: 3 ppm
8	Black netting on lower level.	
9		
10		
11		
12		
13		
14	14 ft	
15	BEDROCK, water at interface. Trench terminated at 14 feet bgs.	
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 45 feet x 6 feet x 14 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

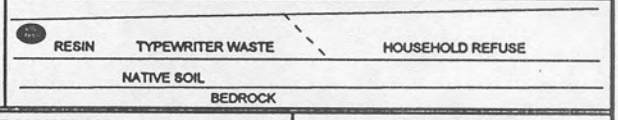
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 30s
DATE/TIME START:	March 10, 1997 / 1105
DATE/TIME FINISH:	March 10, 1997 / 1130
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-26

LOCATION: Second level, center portion.

WEST — CROSS SECTION VIEW — EAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - blue tarp, tires, metal plating, keyboard housings, cable, stumps. White-tan resin fragment, 2-3 feet in diameter at west end of trench.	Resin PID: 0.0 ppm
2	East half of trench is bagged household waste, cover soil is black.	
3	White plastic brackets and rubber caps near center of trench.	
4	4 ft	
5	NATIVE SOIL - silt and clay	
6		
7		
8	8 ft	
9	BEDROCK — Trench terminated at 8 feet bgs.	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 68 feet x 6 feet x 8 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

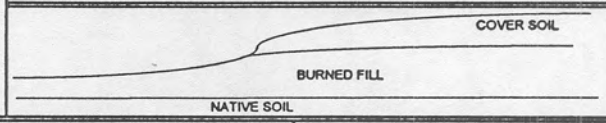
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-27

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 10, 1997 / 1159
DATE/TIME FINISH:	March 10, 1997 / 1212
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Slope between upper and second levels.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL - silt, stone, stumps, brown and gray layers.	
2		
3		
4		
5		
6		
7		
8	8 ft	
9	FILL - ash and burned cans, brackets, furnace parts, black to rust-colored.	
10		
11		
12		
13		
14	14 ft	
15	NATIVE SOIL - silt and clay 15 ft	
16	Trench terminated at 15 feet bgs.	
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 25 feet x 9 feet x 15 feet

Analytical samples collected: TP-27-01(DUP. ID:TP-27-11) - burned fill from wall of slope 10 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-28

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 10, 1997 / 1435
DATE/TIME FINISH:	March 10, 1997 / 1455
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Second level, west of center portion.

WEST — CROSS SECTION VIEW — EAST

APPLIANCES — FILL — TYPEWRITER KEYS

NATIVE SOIL

BEDROCK

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - household waste, clothing, bagged trash, tires, partially burned. White goods and auto parts on west end of trench.	
2		
3	White plastic brackets with typewriter keys attached on east end of trench.	
4		
5	5 ft	
6	NATIVE SOIL - silt and clay	
7		
8	8 ft	
9	BEDROCK Trench terminated at 8 feet bgs.	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 53 feet x 6 feet x 8 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump		**TEST PIT ID: TP-29**
PROJECT NUMBER:	729396.02000	LOCATION:	Second level, on southern extension.
WEATHER	Cloudy, 30s		
DATE/TIME START:	March 11, 1997 / 0900		
DATE/TIME FINISH:	March 11, 1997 / 0917		
CONTRACTOR:	Marcor Environmental		
INSPECTOR:	N.A. Smith		

WEST — CROSS SECTION VIEW — EAST

LAYERED FILL AND COVER SOIL

NATIVE SOIL

BEDROCK

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	Fill - sand, silt, stone, stumps, metal scrap, bottles, fabric, bagged trash. Scattered white goods along length of trench.	Found on excavated soil pile: Newspaper dated June 14, 1971
2	Layers of cover soil within fill.	
3	Typewriter key mold brackets at east end and west of center of trench.	
4		
5		
6		
7		
8		
9	9 ft	
10	NATIVE SOIL - silt and clay, gray. 10 ft	
11	BEDROCK — Trench terminated at 10 feet bgs.	
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 48 feet x 5 feet x 10 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

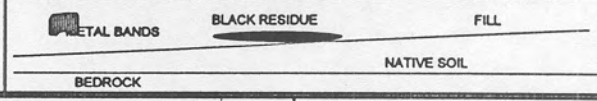
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-30

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 30s
DATE/TIME START:	March 11, 1997 / 1005
DATE/TIME FINISH:	March 11, 1997 / 1015
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Second level, on southern extension.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - bagged household refuse, tires, metal scrap, jars.	Found on excavated soil pile: Newspaper dated June 14, 1971 Same date as that found in adjacent test pit no. 29
2	Metal banding piled 30 feet from north end of trench.	
3		
4	Black residue on soil, plastic bag, and cardboard stack, pungent odor. 4 ft	
5	NATIVE SOIL - gray silt and clay (till) and weathered bedrock.	Residue PID: 0.0 ppm
6		
7	7 ft	Fill extends to 6 feet to south
8	BEDROCK Trench terminated at 7 feet bgs.	
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 45 feet x 6 feet x 7 feet

Samples collected: TP-30-01 - stained area from center of trench 4 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-31

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 30s
DATE/TIME START:	March 11, 1997 / 1105
DATE/TIME FINISH:	March 11, 1997 /1120
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Slope between upper and second levels.

SOUTH — CROSS SECTION VIEW — NORTH

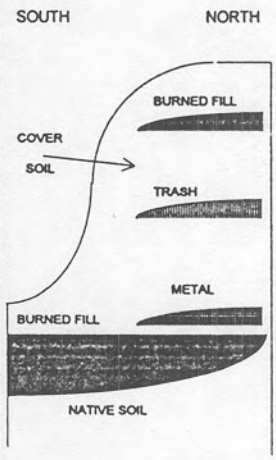
SEE BELOW

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	
1	COVER SOIL - sand, silt, and stone, fill (plastic sheeting).	
2		2 ft
3	FILL - ash and burned debris.	
		3.5 ft
4	COVER SOIL - sand, silt, and stone, trace fill.	
5		
6		6 ft
7	FILL - household debris.	
		7.5 ft
8	COVER SOIL - sand, silt, and stone, trace fill.	
9		
10		
		10.5 ft
11	FILL - car bumpers and large scrap metal debris.	
12		12 ft
13	FILL - ash and burned debris.	
14		
15		
16		
17		
18		
19		
20		20 ft
21	NATIVE SOIL - CLAY, little silt, trace pebbles, gray (TILL).	21 ft
22	Trench terminated at 21 feet bgs.	

COMMENTS

Trench was dug along steep slope. Depth of layering is estimated as instability of slope prevented access for detailed measurements.

CROSS SECTION VIEW



SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 17 feet x 10 feet x 21 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-32

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 30s
DATE/TIME START:	March 11, 1997 / 1345
DATE/TIME FINISH:	March 11, 1997 / 1423
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 2, southwest portion.

WEST — CROSS SECTION VIEW — EAST

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	COVER SOIL & FILL - household refuse. Design plans labelled "Pall Trinity Corp." at east end of trench. Gray-green residue with putty-like consistency at east end of trench.	
2	2 ft	
3	Large metal debris (water heaters, auto and farm machine parts, bedsprings) in western half of trench. Three empty crushed drums found at 15 ft, 32 ft, and 45 ft from east end. 3 ft	PID on each drum: 0.0 ppm
4	NATIVE SOIL - CLAY, little silt, trace pebbles, gray (TILL). 4 ft	
5	Trench terminated at 4 feet bgs.	
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 48 feet x 5 feet x 4 feet

Samples collected: TP-32-01 - gray-green residue from east end of trench, 1 foot deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

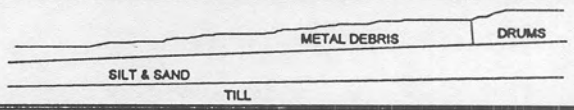
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-33

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Mostly sunny, 30s
DATE/TIME START:	March 11, 1997 / 1505
DATE/TIME FINISH:	March 11, 1997 / 1600
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Ridge along access road between Levels 2 and 3.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	Metallic debris piled above grade, decreasing to south. 0 ft	
1	Several crushed drums near surface - most empty, some contain soil or yellow paint residue. 1 ft	Drums present on northern portion of trench only.
2	NATIVE SOIL - Silt and sand.	
3		
4	4 ft	
5	NATIVE SOIL - CLAY, little silt, trace pebbles, gray (TILL).	
6	6 ft	
7	Trench terminated at 6 feet bgs.	
8		
9		
10		
11		
12		
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SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 85 feet x 15 feet x 6 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump		**TEST PIT ID: TP-34**
PROJECT NUMBER:	729396.02000	LOCATION:	Base of slope between Levels 2 and 3.
WEATHER	Mostly sunny, 30s		
DATE/TIME START:	March 12, 1997 / 1047		
DATE/TIME FINISH:	March 12, 1997 / 1057		
CONTRACTOR:	Marcor Environmental		
INSPECTOR:	N.A. Smith		

WEST — CROSS SECTION VIEW — EAST

SILT, SAND, & STONE

BEDROCK

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	NATIVE SOIL - Silt, sand, and stone, brown-gray (TILL).	
2		
3		
4		
5		
6	Wet at 6 feet.	
7		
8	8 ft	
9	BEDROCK — Trench terminated at 8 feet bgs.	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 42 feet x 5 feet x 8 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Mostly sunny, 30s
DATE/TIME START:	March 12, 1997 / 1118
DATE/TIME FINISH:	March 12, 1997 / 1125
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-35

LOCATION: Base of slope between Levels 2 and 3.

SOUTH — CROSS SECTION VIEW — NORTH

TOPSOIL

TILL

BEDROCK

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	TOPSOIL, brown-black. 1 ft	
2	NATIVE SOIL - Silt, sand, and stone, brown-gray (TILL).	
3		
4	4 ft	
5	BEDROCK Trench terminated at 4 feet bgs.	
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
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18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 43 feet x 5 feet x 4 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

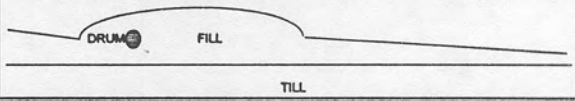
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-36

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 30s
DATE/TIME START:	March 12, 1997 / 1400
DATE/TIME FINISH:	March 12, 1997 / 1425
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 3, west of center.

EAST — CROSS SECTION VIEW — WEST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+3	Mound on eastern portion of excavation.	
+2	Bagged trash, bottles, cans, roofing materials, concrete slabs, machinery parts.	
+1	Crushed drum found, empty.	
0	Ground surface of surrounding grade. 0 ft	Crushed drum PID: 40 ppm Soil below drum PID: 15 ppm
1	NATIVE SOIL - Silt, sand, and stone, brown-gray (TILL).	
2		
3		Soil PID: 96 ppm at isolated portion on west side of trench
4	4 ft	
5	Trench terminated at 4 feet bgs.	
6		
7		
8		
9		
10		
11		
12		
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14		
15		
16		
17		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 56 feet x 5-15 feet x 4 feet

Analytical samples collected: TP-36-01 - soil beneath crushed drum on east portion of trench, 2 feet deep.
TP-36-02 - from soil at west end of trench, 3 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

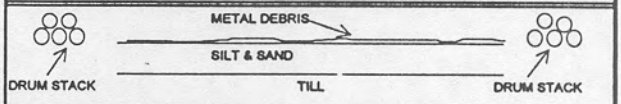
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-37

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Cloudy, 30s
DATE/TIME START:	March 12, 1997 / 1515
DATE/TIME FINISH:	March 12, 1997 / 1525
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 3, between drum piles.

CROSS SECTION VIEW



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
0	Fill on surface - metal bands and bedspring.	0 ft	
1	NATIVE SOIL - Silt and fine-medium sand, brown.	1 ft	
2	NATIVE SOIL - Silt, sand, and stone, brown-gray (TILL).		
3			
4			
5			
6		6 ft	
7	Trench terminated at 6 feet bgs.		
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 43 feet x 5 feet x 6 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

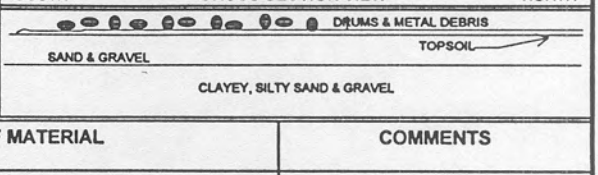
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-38

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 13, 1997 / 1430
DATE/TIME FINISH:	March 13, 1997 / 1515
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Level 3, drum nest on west end of ridge.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	Several drums present on ground surface. Most are empty, one drum overpacked. 0 ft	
1	TOPSOIL - Dark gray-black silt, little fine-coarse sand, trace fine-coarse gravel, organic-rich, moist. 1 ft	Drum ID: TP-38-D1 Drum opened 3/20/97. PID: 57 ppm LEL: 1% Contents: Approx. 5 gallons of brown, tan, and black solidified resin.
2	NATIVE SOIL - brown fine -coarse SAND and GRAVEL, little silt, iron-stained, dry. 2 ft	
3	NATIVE SOIL - gray-brown fine -coarse GRAVEL, little silt, clay, and sand, moist. Fuel odor present approx. 2 feet below grade, soil PID: 15 ppm.	
4		
5	Wet at 5 feet.	
6		
7		
8		
9		
10	10 ft	
11	Trench terminated at 10 feet bgs.	
12		
13		
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15		
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18		
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20		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 18 feet x 13 feet x 10 feet

Samples collected: TP-38-01 - soil from 2 feet deep.

TP-38-D1- from overpacked drum.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-39

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 17, 1997 / 1035
DATE/TIME FINISH:	March 17, 1997 / 1055
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 3, across ridge.

SOUTH — CROSS SECTION VIEW — NORTH

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+3		
+2	FILL - Soil and metal debris consisting of: several drum carcasses, bedsprings, auto parts, and metal banding.	
+1		
0	Ground surface of surrounding grade. 0 ft	
1		
2	2 ft	
3	NATIVE SOIL - brown SILT, SAND, and STONE.	
4		
5		
6		
7		
8		
9	9 ft	
10	Trench terminated at 12 feet bgs from top of ridge (9 feet below surrounding grade).	
11		
12		
13		
14		
15		
16		
17		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 17 feet x 11 feet x 9-12 feet

Analytical samples collected: TP-39-01(DUP. ID:TP-39-11) - soil from beneath empty drums, 1 foot deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

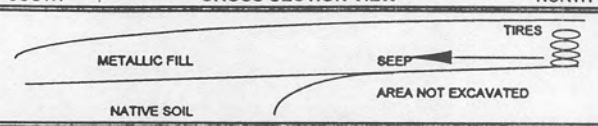
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-40

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Partly sunny, 40s
DATE/TIME START:	March 17, 1997 / 1315
DATE/TIME FINISH:	March 17, 1997 / 1400
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 3, ridge near drainage swale.

SOUTH — CROSS SECTION VIEW — NORTH



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - Scrap metal, white goods, tires, sheet metal, several empty crushed drums and drum fragments.	All drums empty, PID: 0.0 ppm
2		
3		
4	Stacked tires, appear to have been burned.	
5	Water flowing into trench from north, contains NAPL. 5 ft	
6	NATIVE SOIL - brown fine-coarse SAND, some silt, little gravel, moist.	Excavation terminated when NAPL was encountered. NYSDEC Spill Response Unit contacted for guidance. Area fenced off and sorbent pads were applied. Samples of seep were collected by field team and by spill response contractor. Fluid in trench pumped into tanker truck for proper disposal.
7		
8		
9		
10	10 ft	
11	Trench terminated at 10 feet bgs at south, 5 feet bgs at seep to north.	
12		
13		
14		
15		
16		
17		
18		
19		

Dimensions (LENGTH x WIDTH x DEPTH): 28 feet x 10 feet x 5-10 feet

Analytical samples collected: TP-40-01 - soil below seep at north portion of trench, 4 feet deep.

TP-40-W - aqueous sample from seep at north end of trench.

TP-40-SEEP - from drainage into swale downstream of TP-40.

Additional aqueous samples collected from trench by Buck Labs for waste disposal characterization.

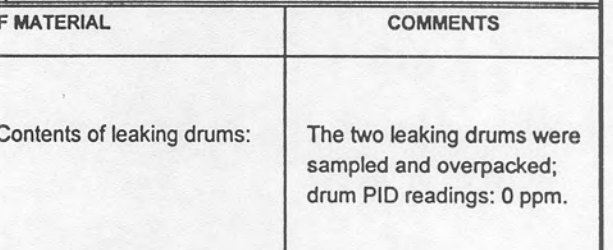
Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-41

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 18, 1997 / 0920
DATE/TIME FINISH:	March 18, 1997 / 0930
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 3, southeast portion of ridge.



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - tires, metal bands, and brackets.	
2	Two leaking drums and one empty drum at 1 foot. Contents of leaking drums: moroon-colored solid and metal typewriter pieces.	The two leaking drums were sampled and overpacked; drum PID readings: 0 ppm.
3		
4	4 ft	
5	NATIVE SOIL - brown SAND, SILT, AND STONE.	
6		
7	Water at 7 feet. 7 ft	
8	Trench terminated at 7 feet bgs.	
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 28 feet x 11 feet x 7 feet

Samples collected: TP-41-01 - composite sample of 2 leaking drums.

TP-41-D1 (DUP. ID: TP-41-DR1) - from overpacked drum.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

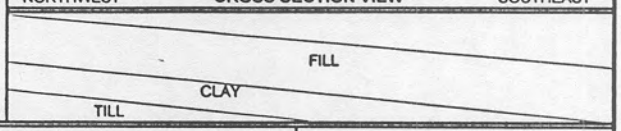
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-42

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 18, 1997 / 1127
DATE/TIME FINISH:	March 18, 1997 / 1135
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Slope between second and third levels.

NORTHWEST — CROSS SECTION VIEW — SOUTHEAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - household trash (mostly plastics), white plastic typewritter key molds, mixed with brown f.-c. sand and silt, dry.	
2		
3		
4	4 ft	
5	Gray-green CLAY, some silt, little f.-c. sand, tr. f.-c. gravel, moist. 5 ft	PID reading: 2.5 ppm.
6	Gray-brown COBBLES and SILT, little f.-c. sand and f.-c. gravel, dry to moist (TILL).	
7		
8	8 ft	
9	Trench terminated at 4 feet bgs at southeast end, 8 feet bgs at northwest end.	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 15 feet x 5 feet x 4-8 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

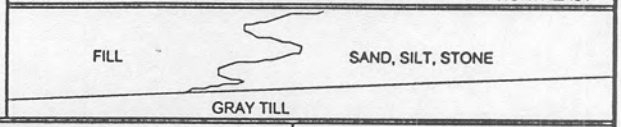
PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-43

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 18, 1997 / 1400
DATE/TIME FINISH:	March 18, 1997 / 1410
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

LOCATION: Level 3, southeast corner.

SOUTHWEST — CROSS SECTION VIEW — NORTHEAST



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - household trash, food, cleaning containers, fabric, tires, typewritter key molds, newspaper dated October 11, 1971. Replaced by brown SAND, SILT, and STONE to northeast.	
2		
3		
4		
5		
6	6 ft	
7	Gray SAND, SILT, and CLAY (TILL). Encountered at shallower depth at northeast end of trench. 7 ft	
8	Trench terminated at 7 feet bgs.	
9		
10		
11		
12		
13		
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20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 33 feet x 5 feet x 7 feet

Samples collected: TP-43-01 - gray till, 6 feet deep.

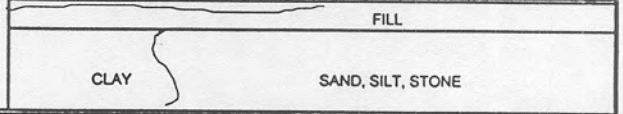
Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 18, 1997 / 1520
DATE/TIME FINISH:	March 18, 1997 / 1528
CONTRACTOR:	Marcor Environmental
INSPECTOR:	N.A. Smith

TEST PIT ID: TP-44

LOCATION: Level 3, near iron-stained seep.



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - bagged household trash. Thin cover on southwest end of trench. 1 ft	
2	Brown SAND, SILT, and STONE. Replaced by gray CLAY near southwest end of trench.	
3		
4		
5		
6		
7	7 ft	
8	Trench terminated at 7 feet bgs.	
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 18 feet x 8 feet x 7 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-45

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 20s
DATE/TIME START:	March 19, 1997 / 0910
DATE/TIME FINISH:	March 19, 1997 / 0945
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Level 3, east end of ridge.

WEST — CROSS SECTION VIEW — EAST

NO SUBSURFACE EXCAVATION

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+3	Four drums with contents encountered at surface:	D1, D2, and D3 overpacked. D1 and D2 sampled 3/20/97. Due to insufficient quantity, D3 could not be sampled.
+2	D1: half-full, oil-like contents, PID reading: 0 ppm.	
+1	D2: one-third-full, oil-like contents, PID reading: 0 ppm.	
0	D3: less than one-quarter-full, oil-like contents, PID reading: 0 ppm.	
1	D4: contains ash, PID reading: 0 ppm.	
2	Seven empty drums encountered at surface. Two rusted through. Mixed metal debris exposed at surface.	
3	0 ft	
4	No subsurface excavation.	
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 17 feet x 10 feet x 0 feet (drums on surface)

Samples collected: TP-45-D1 - from overpacked drum.

TP-45-D2 - from overpacked drum.

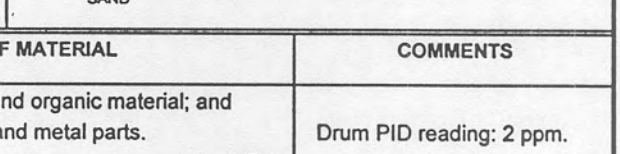
Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-46

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 20s
DATE/TIME START:	March 19, 1997 / 1022
DATE/TIME FINISH:	March 19, 1997 / 1030
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Level 3, north of ridge.



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - Mixture of brown silt, sand, and gravel; roots and organic material; and trash: plastic, cans, tires, one empty crushed drum, and metal parts. 1.5 ft	Drum PID reading: 2 ppm.
2	Gray silty CLAY, little f.-c.sand, tr. f. gravel, moist (absent on south end). 2 ft	
3	Brown f.-c. SAND, some silt, tr. f.-c. gravel, dry.	
4	Trench terminated at 4 feet bgs. 4 ft	
5	Gray-brown SILT and COBBLES, little f.-c. sand, dry (TILL).	
6		
7		
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20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 35 feet x 4 feet x 4 feet

Samples collected: TP-46-01 - gray silty clay at north end of trench, 2 feet deep.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-47

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 30s
DATE/TIME START:	March 19, 1997 / 1053
DATE/TIME FINISH:	March 19, 1997 / 1058
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Level 3, east of ridge.

WEST — CROSS SECTION VIEW — EAST

SAND

SAND AND SILT

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	Reddish (stain?) f.-m. SAND, some-little silt, tr. f. gravel, dry to moist. 1 ft	
2	Gray, f.-c. SAND and SILT, little f.-c. gravel, dry to moist.	
3		
4	Trench terminated at 4 feet bgs. 4 ft	
5	Gray-brown SILT and COBBLES, little f.-c. sand, dry to moist (TILL).	
6		
7		
8		
9		
10		
11		
12		
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14		
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18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 29 feet x 4 feet x 4 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-48

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 19, 1997 / 1427
DATE/TIME FINISH:	March 19, 1997 / 1436
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Level 3, north of ridge near TP-40.

SOUTH	CROSS SECTION VIEW	NORTH
	FILL	
	SAND	WET

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - black to dark brown, occaisionally red-stained, organic-rich topsoil (?), scattered trash, including two drum lids. 1 ft	
2	Brown f.-c. silty SAND, little f.-c. gravel, tr. cobbles, moist to wet.	
3		
4	Water entered north end of trench between 3 to 5 feet.	
5	5 ft	
6	Trench terminated at 5 feet bgs.	
7		
8		
9		
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17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 48 feet x 4 feet x 5 feet

No analytical samples collected.

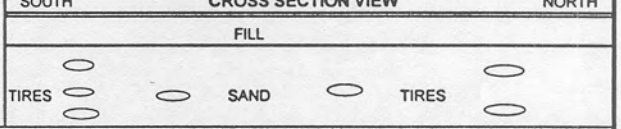
Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

TEST PIT ID: TP-49

PROJECT NAME:	NYSDEC - South Hill Dump
PROJECT NUMBER:	729396.02000
WEATHER	Sunny, 40s
DATE/TIME START:	March 19, 1997 / 1504
DATE/TIME FINISH:	March 19, 1997 / 1509
CONTRACTOR:	Marcor Environmental
INSPECTOR:	E.A. Felter

LOCATION: Level 3, north of ridge near TP-40.



DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - Black and red-stained organics and rusted metal debris.	
	1.5 ft	
2	FILL - Mixture of brown-gray silty, f.-c. SAND, little f.-c. gravel, tr. cobbles; and tires.	
3		
4	Water entered trench at 3.5 feet.	
5		
	5.5 ft	
6	Trench terminated at 5.5 feet bgs.	
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 18 feet x 4 feet x 5.5 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

PARSONS ENGINEERING SCIENCE, INC.
TEST PIT RECORD

PROJECT NAME:	NYSDEC - South Hill Dump		**TEST PIT ID: TP-50**
PROJECT NUMBER:	729396.02000	LOCATION:	Level 3, ridge near TP-40.
WEATHER	Sunny, 40s		
DATE/TIME START:	March 19, 1997 / 1518		
DATE/TIME FINISH:	March 19, 1997 / 1524		
CONTRACTOR:	Marcor Environmental		
INSPECTOR:	E.A. Felter		

WEST — CROSS SECTION VIEW — EAST

TIRES | TIRES

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
1	FILL - tires, some apparently burned. Water and oil entered trench.	Oil recovered with pads.
2		
3		
4		
5	5 ft	
6	Trench terminated at 5 feet bgs.	
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

SUMMARY

Dimensions (LENGTH x WIDTH x DEPTH): 10 feet x 4 feet x 5 feet

No analytical samples collected.

Downwind air monitoring results: PID: 0.0 ppm LEL: NORMAL Cyanide Draeger: NON-DETECT

WELL BORING LOGS

Contractor: SJB Services Driller: Dale Matthies Inspector: N. Smith / S. Dillman Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** DRILLING RECORD PROJECT NAME: NYSDEC - South Hill Dump PROJECT NUMBE 729396.02000	**BORING/ WELL NO. MW-1B** Sheet 1 of 2 Location Description: North of South Hill Road in tree cluster across road from site. Upgradient well location.

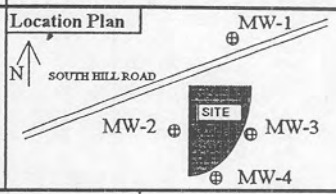
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 20 to 40 degrees, sun, wind, snow

Date/Time Start: March 26, 1997 / 0810

Date/Time Finish: April 10, 1997 / 1218

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+2						
+1						
0		SS			0 feet	
	A	1	25%	0.0	SILT, little clay, brown, dry.	
1		1				
		2				
2		3				
	B	4	50%	0.0		
3		7			some siltstone fragments	
		10				
4		23				
	C	5	40%	0.0	SILT, some siltstone fragments, brown-gray, dry.	
5		11				
		19				MW-1S screen set
6		40				5 to 15 feet bgs
	D	20	35%	0.1	stiff	Details on Well
7		50/0.5'				Construction Log
		A				
8		A			8.0 feet	
	E	15	70%	0.0	SILT, little clay and weathered shale, brown, wet.	
9		27				
		50/0.4'				
10		A			10.0 feet	
	F	42	70%	0.0	CLAY and weathered SHALE, little silt, gray, wet.	
11		30				
		23				
12		50/0.4'				
	G	19	25%	0.0	damp	
13		50/0.3'				
		A				
14		A				
	H	19	50%	0.0	CLAY and weathered SHALE, gray, wet.	
15		14				
		17				
16		38				
	I	29	40%	0.0		
17		50/0.3'				
		A				
18		A			18.0 feet	
	J	50/0.3'	0%	N/A	SHALE, gray, competent.	

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

COMMENTS:
Analytical samples collected from 2-4 feet and from 6-10 feet bgs.

Contractor: SJB Services **Driller:** Dale Matthies **Inspector:** N. Smith / S. Dillman **Rig Type:** CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO. MW-1B** Sheet 2 of 2 **Location Description:** North of South Hill Road in tree cluster across road from site. Upgradient well location.

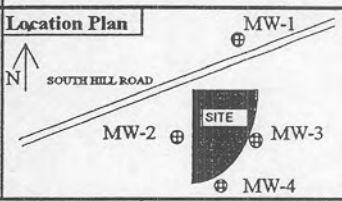
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 20 to 40 degrees, sun, wind, snow

Date/Time Start: March 26, 1997 / 0810

Date/Time Finish: April 10, 1997 / 1218

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
18		C				
	1-1	73	92%		SHALE, gray, competent.	
19		C			Vertical fracture from 18.5 to 19.8 feet bgs.	
		C			Drilling breaks at 18.9, 19.1, and 19.5 feet bgs.	
20		C				MW-1B outer casing
	1-2	LOW			SHALE, some weathered, gray.	set to 20 feet bgs
21		C			Core recovery mostly gravel-sized rubble with some 3-5" pieces.	Details on Well
		C				Construction Log
22		C				
		C				
23		C				
		C				
24		C				
		C				
25		C				
		C				MW-1B screen set
26		C				25 to 35 feet bgs
	1-3	35	100%		SHALE, gray, calcareous, fossiliferous, some angular porosity.	Details on Well
27		C			Crinoid layer from 26.5-27 feet bgs.	Construction Log
		C			Bedding-plane fractures at 27.4 and 28.4 feet bgs.	
28		C				
		C				
29		C				
		C			Hole in core at 29 feet from former crinoid stem (removed by solution).	
30		C				
	1-4	49	100%		SHALE, gray, few fossils.	
31		C			Vertical fracture at 31.6 feet bgs.	
		C			Bedding-plane fractures at 30.9, 31.1, 31.3, 31.4, 32.8, 32.9, 33.1, and 34.0 feet bgs.	
32		C				
		C				
33		C				
		C				
34		C				
		C				
35		C			35.0 feet	
					Boring terminated at 35 feet bgs.	
36						
37						
38						

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

COMMENTS:
Analytical samples collected from 2-4 feet and from 6-10 feet bgs.

Contractor SJB Services **Driller:** Dale Matthies **Inspector:** N. Smith / C. Torell **Rig Type:** CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.**	Sheet 1 of 3 **MW-2 S/B**
		Location Description West of edge of fill Level 3, southwest of stacked resin drums.	

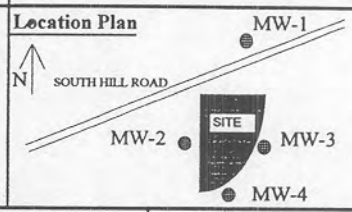
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 30 to 60 degrees, sun, wind

Date/Time Start: March 27, 1997 / 1302

Date/Time Finish: April 7, 1997 / 1630

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+2						
+1						
0		SS			0 feet	
	A	2	50%	0.0	SILT, little-some clay, brown, damp.	
1		2				
		4				
2		5				
	B	10	38%	7.9	SILT, little clay and siltstone fragments, brown-gray, dry-damp.	
3		9				
		8				
4		6				
	C	3	30%	3.5	SILT and CLAY, little siltstone fragments, trace weathered shale, brown, damp.	
5		7			moist at 4.5 feet bgs	
		6				MW-2S screen set
6		8				5 to 10 feet bgs
	D	5	45%	3.9	CLAY, little silt, trace fine gravel (rounded) and weathered shale (angular), brown-gray, wet.	Details on Well
7		8				Construction Log
		17				
8		18				
	E	9	70%	2.7	CLAY, little fine gravel-pebbles (rounded, 1/2"-3/4" diameter), brown, moist.	
9		11				
		14				
10		20				
	F	8	55%	11.2	iron staining at 10.2-10.4 feet bgs, damp	
11		17				
		21				
12		27				
	G	45	85%	12.5	SILT, some clay, little fine-medium gravel and rock fragments, stiff, dry (TILL).	
13		30				
		36				
14		A				
	H	14	70%	14.6	water and iron staining on gravel	MW-2D screen set
15		16				14 to 24 feet bgs
		26				Details on Well
16		21				Construction Log
	I	16	50%	26.9	SILT, some clay, little-some fine-medium gravel and rock fragments, stiff, dry (TILL).	
17		13				
		17				
18		20			wet at 17.5 feet	
	J	8	25%	69.4	CLAY, some shale fragments, brown, loose, wet.	

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

COMMENTS:
Analytical samples collected from 2-4 feet, 10-14 feet, and 20-28 feet bgs.

Contractor SJB Services Driller: Dale Matthies Inspector: N. Smith / C. Torell Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** Sheet 2 of 3 MW-2S/B **Location Description** West of edge of fill Level 3, southwest of stacked resin drums.

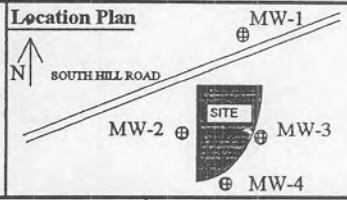
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 30 to 60 degrees, sun, wind

Date/Time Start: March 27, 1997 / 1302

Date/Time Finish: April 7, 1997 / 1630

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
19	J	15	25%	69.4	CLAY, some shale fragments, brown, loose, wet.	
		19				
20		23				
	K	19	30%	150	little-some shale fragments	
21		12				
		29				
22		38				
	L	8	45%	54.7	CLAY, some silt, little fine gravel and shale fragments, brown, soft, wet to 22.3 feet bgs.	
23		10				
		12			clay and silt moist, gravel is wet	
24		25				
	M	6	65%	32.2		
25		16				
		17				
26		18				
	N	10	40%	104	CLAY, some shale fragments, brown, wet. 26.5 feet	
27		50/0.4'			SHALE fragments, gray, wet.	
		A				
28		A				
	O	50/0.2'	10%	105	SHALE fragments, trace clay, partially weathered, gray, wet.	
29		A				
		A			29.3 feet	
30	2-1	78	100%		SHALE, gray, trace fossils, competent.	
		C			Several horizontal-angular drilling breaks.	
31		C			Horizontal iron-stained fractures at 30, 30.5, and 31 feet bgs.	
		C				MW-2B casing set
32	2-2	64	98%		SHALE, gray.	to 31.5 feet bgs
		C			Several drilling breaks.	Details on Well
33		C			Iron-stained fractures at 31.8-32.1, 32.2-32.5, and 36.2-36.4 feet bgs.	Construction Log
		C				
34		C				
		C				
35		C				
		C				
36		C				
		C				
37		C				
		C				
38		C				
		C				
39		C				
		C				

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

COMMENTS:
Analytical samples collected from 2-4 feet, 10-14 feet, and 20-28 feet bgs.

Contractor SJB Services Driller: Dale Matthies Inspector: N. Smith / C. Torell Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** Sheet 3 of 3 **MW-2S/B** **Location Description** West of edge of fill Level 3, southwest of stacked resin drums.

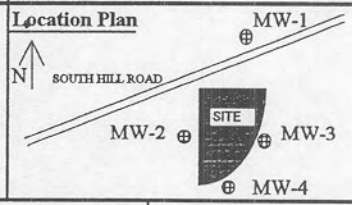
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 30 to 60 degrees, sun, wind

Date/Time Start: March 27, 1997 / 1302

Date/Time Finish: April 7, 1997 / 1630

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
40	2-2	64	98%		SHALE, gray.	MW-2B open from 31.5 to 41.5 feet bgs Details on Well Construction Log
		C			Several drilling breaks.	
41		C				
		C			41.5 feet	
42					Boring terminated at 41.5 feet bgs.	
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						

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

COMMENTS:
Analytical samples collected from 2-4 feet, 10-14 feet, and 20-28 feet bgs.

Contractor SJB Services Driller: Dale Matthies Inspector: N. Smith / S. Dillman Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** Sheet 1 of 2 **MW-3B** **Location Description** Along drainage stream east of metallic surficial fill area.

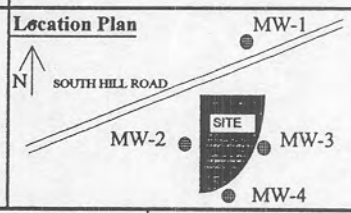
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 30 to 50 degrees, sun, wind, snow

Date/Time Start: April 3, 1997 / 0947

Date/Time Finish: April 9, 1997 / 1155

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+2						
+1						
0		SS			0 feet	
	A	1	30%	20.9	SILT, trace clay, roots, and shale, brown, soft, damp.	
1		3				
		7				
2		9				
	B	5	25%	21.9	SILT, brown, some clay, gray, trace fine gravel, damp.	
3		7				
		5				
4		20				
	C	15	50%	26.3	SILT, some clay, little fine-medium gravel, brown, wet.	
5		4				
		4				MW-3S screen set
6		4				5 to 10 feet bgs
	D	1	38%	15.9		Details on Well
7		2				Construction Log
		3				
8		1				
	E	1	65%	22.7		
9		2				
		5			CLAY, some silt and rock fragments, brown, moist-wet.	
10		10			10.0 feet	
	F	50/0.3'	10%	23.7	SHALE fragments, dark gray, dry (sampling spoon is wet).	
11		A				
		A				
12		A				
		A				
13	G	50/0.1'	3%	22.1	CLAY and SHALE fragments, gray, wet. 12.8 feet	
	3-1	86	86%	0.0	SHALE, gray, competent, scattered fossils, several drilling breaks.	
14		C			Vertical fracture from 14.5 to 15.25 feet bgs (mechanical).	
		C			Horizontal clay-filled and iron-stained fractures at 13.7, 14.2-14.4, and 14.8-15.0 feet bgs.	
15		C				
		C				
16		C				MW-3B casing set
	3-2	94	100%		SHALE, gray, competent, some fossils.	to 16 feet bgs
17		C			Vertical fracture from 21.0 to 21.4 feet bgs.	Details on Well
		C			Horizontal iron-stained fractures at 19.0-19.1 and 25.5-26.1 feet bgs.	Construction Log
18		C				
		C				

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

COMMENTS:
Analytical samples collected from 2-8 feet bgs.

Contractor SJB Services Driller: Dale Matthies Inspector: N. Smith / S. Dillman Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** **MW-3B** Sheet 2 of 2 **Location Description** Along drainage stream east of metallic surficial fill area.

GROUNDWATER OBSERVATIONS

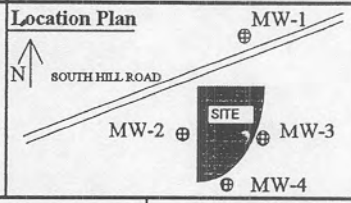
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 30 to 50 degrees, sun, wind, snow

Date/Time Start: April 3, 1997 / 0947

Date/Time Finish: April 9, 1997 / 1155

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
19	3-2	94	100%		SHALE, gray, competent, some fossils.	
		C			Vertical fracture from 21.0 to 21.4 feet bgs.	MW-3B open from
20		C			Horizontal iron-stained fractures at 19.0-19.1 and 25.5-26.1 feet bgs.	16 to 26 feet bgs
		C				Details on Well
21		C				Construction Log
		C				
22		C				
		C				
23		C				
		C				
24		C				
		C				
25		C				
		C				
26		C			26.1 feet	
					Boring terminated at 26.1 feet bgs.	
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						

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

COMMENTS:
Analytical samples collected from 2-8 feet bgs.

Contractor SJB Services Driller: Dale Matthies Inspector: N. Smith / C. Torell Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** Sheet 1 of 3 **MW-4B** **Location Description** At top of ravine, south of site.

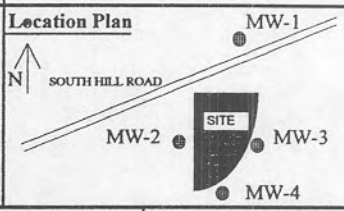
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 20 to 40 degrees, sun, clouds, wind

Date/Time Start: March 31, 1997 / 1325

Date/Time Finish: April 8, 1997 / 1510

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+2						
+1						
0		SS			0 feet	
	A	2	40%	0.0	SILT, little clay, trace roots and rock fragments, brown, moist.	
1		2				
		3				
2		20				
	B	12	35%	0.0	SILT and CLAY, some cobble fragments, brown, trace iron staining, moist.	
3		10				
		21				
4		36				
	C	6	50%	0.0	SILT, little clay and fine gravel, firm, brown, damp.	
5		5				
		14				
6		8				MW-4S screen set
	D	3	75%	0.0	SILT, some fine-medium gravel, trace fine-medium sand and clay, brown,wet.	6 to 16 feet bgs
7		4				Details on Well
		5			SILT, little clay and fine gravel, brown, damp.	Construction Log
8		4				
	E	6	45%	0.0	SILT, little clay, trace pebbles, brown, firm, damp (TILL).	
9		8				
		9				
10		14				
	F	6	40%	0.0	trace shale, moist	
11		10				
		16				
12		49				
	G	14	30%	0.0	SILT, some clay, little pebbles, brown, firm, moist, wet around pebbles.	
13		19				
		18				
14		16				
	H	7	40%	0.0		
15		8				
		7				
16		25				
	I	31	25%	0.0		
17		17				
		26				
18		30				
	J	11	35%	0.0		

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

COMMENTS:
Analytical samples collected from 4-6 feet and 16-20 feet bgs.

Contractor SJB Services Driller: Dale Matthies Inspector: N. Smith / C. Torell Rig Type: CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** MW-4B	Sheet 2 of 3
		Location Description At top of ravine, south of site.	

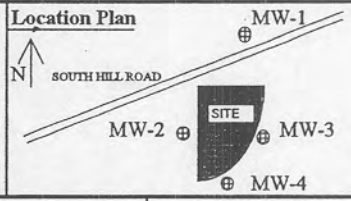
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 20 to 40 degrees, sun, clouds, wind

Date/Time Start: March 31, 1997 / 1325

Date/Time Finish: April 8, 1997 / 1510

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
19		22			SILT, some clay, little pebbles, brown, firm, moist, wet around pebbles.	
		50/0.4'				
20		A			20.2 feet	
	K	50/0.4'	20%	0.0	SHALE fragments, little till, moist.	
21		A				
		A				
22		A				
	L	50/0.3'	10%	0.0	SHALE fragments, dry.	
23		A				
		A				
24		A				
		A				
25		C				
	4-1	0	67%		SHALE fragments, fossiliferous, not competent, fragments <1/2" to 1-1/2" diameter.	
26		C				
		C			CLAY layer 26-26.2 feet bgs.	
27	4-2	22	43%		SHALE fragments, gray, not competent, fragments approx. 2" diameter.	
		C			Angular fracture from at 27 feet bgs.	
28		C			CLAY and GRAVEL layer, gray, 27.5-27.7 feet bgs.	
		C				
29		C				
		C				
30		SS				
	P	6	45%	0.0	SAND, fine-medium, trace fine-medium gravel, gray, compact, wet.	
31		46			CLAY, little shale fragments, gray, stiff, wet.	
		50/0.4'				
32		A				
	Q	50/0.4'	10%	0.0	CLAY and SHALE fragments, gray, wet.	
33		A			33.2 feet	
	4-3	88	97%	0.0	SHALE, gray, competent, scattered fossils, several drilling breaks.	
34		C			Angular fracture from 34 to 34.2 feet bgs.	
		C			Horizontal clay-filled fractures at 34.9-35.1 and 35.7 feet bgs.	
35		C				
		C				
36		C				MW-4B casing set to 36 feet bgs Details on Well Construction Log
	4-4	53	96%		SHALE, gray, competent, some fossils.	
37		C			Fractures at 38.8, 39-39.3, 39.6 feet bgs.	
		C				
38		C				
		C				
39		C				
		C				

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

COMMENTS:
Analytical samples collected from 4-6 feet and 16-20 feet bgs.

Contractor SJB Services **Driller:** Dale Matthies **Inspector:** N. Smith / C. Torell **Rig Type:** CME-550	**PARSONS ENGINEERING SCIENCE, INC.** **DRILLING RECORD** **PROJECT NAME:** NYSDEC - South Hill Dump **PROJECT NUMBE** 729396.02000	**BORING/ WELL NO.** MW-4B **Sheet** 3 **of** 3 **Location Description** At top of ravine, south of site.

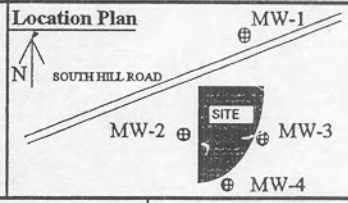
GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Variable - 20 to 40 degrees, sun, clouds, wind

Date/Time Start: March 31, 1997 / 1325

Date/Time Finish: April 8, 1997 / 1510

Location Plan



Sample Depth	Sample I.D.	SPT / RQD	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
40	4-4	53	96%		SHALE, gray, competent, some fossils. Fractures at 41, 42.1-43, and 46.1 feet bgs.	MW-4B open from 36.6 to 46.6 feet bgs Details on Well Construction Log
		C				
41		C				
		C				
42		C				
		C				
43		C				
		C				
44		C				
		C				
45		C				
		C				
46		C				
		C			46.6 feet	
47					Boring terminated at 46.6 feet bgs.	
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						

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

COMMENTS:
Analytical samples collected from 4-6 feet and 16-20 feet bgs.

WELL CONSTRUCTION DIAGRAMS

OVERBURDEN MONITORING WELL CONSTRUCTION LOG

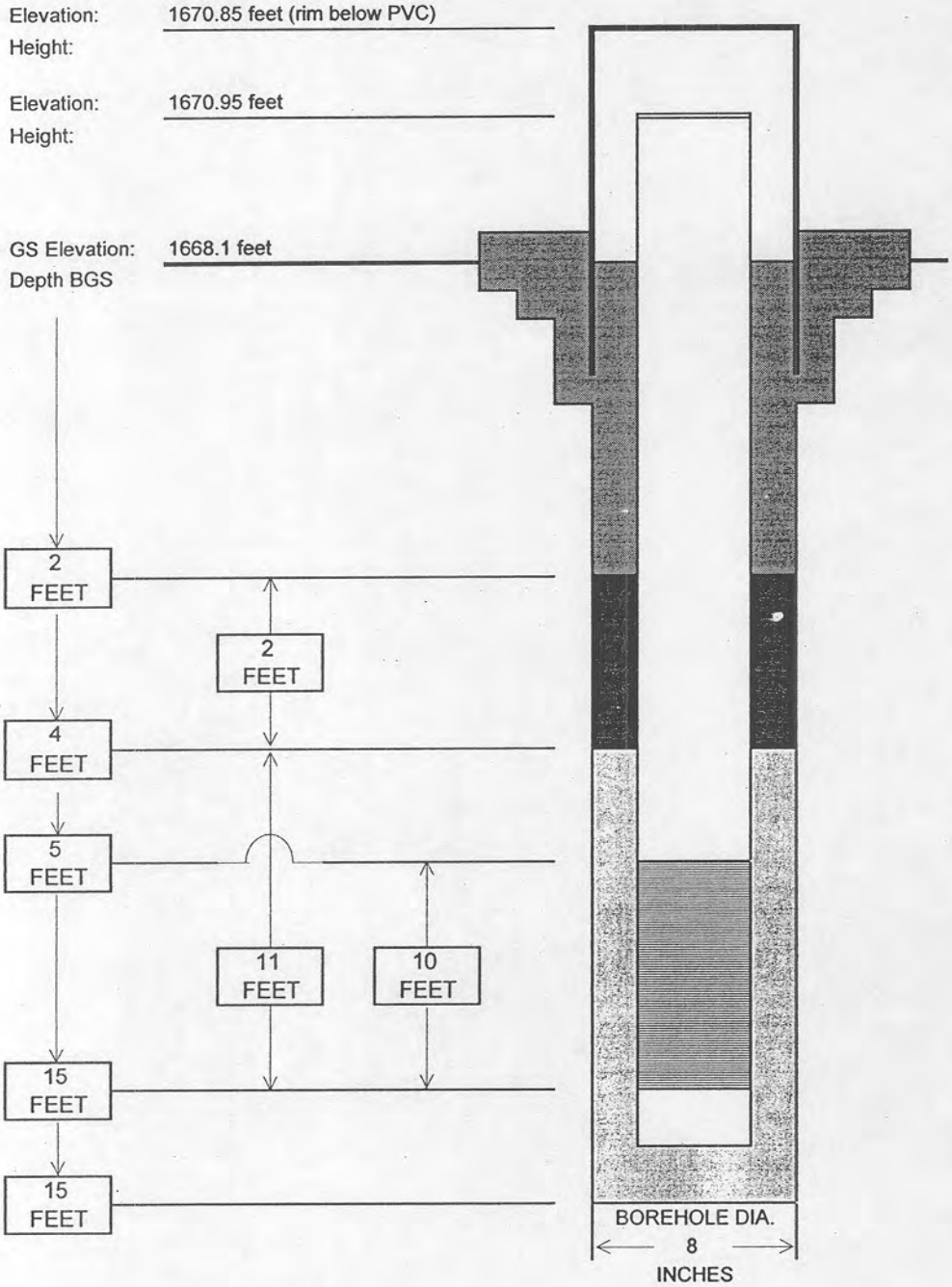
WELL NO.:	MW-1S	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	MARCH 26, 1997	DATE END:	MARCH 27, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-1

Elevation: 1670.85 feet (rim below PVC)
Height:

Elevation: 1670.95 feet
Height:

GS Elevation: 1668.1 feet
Depth BGS

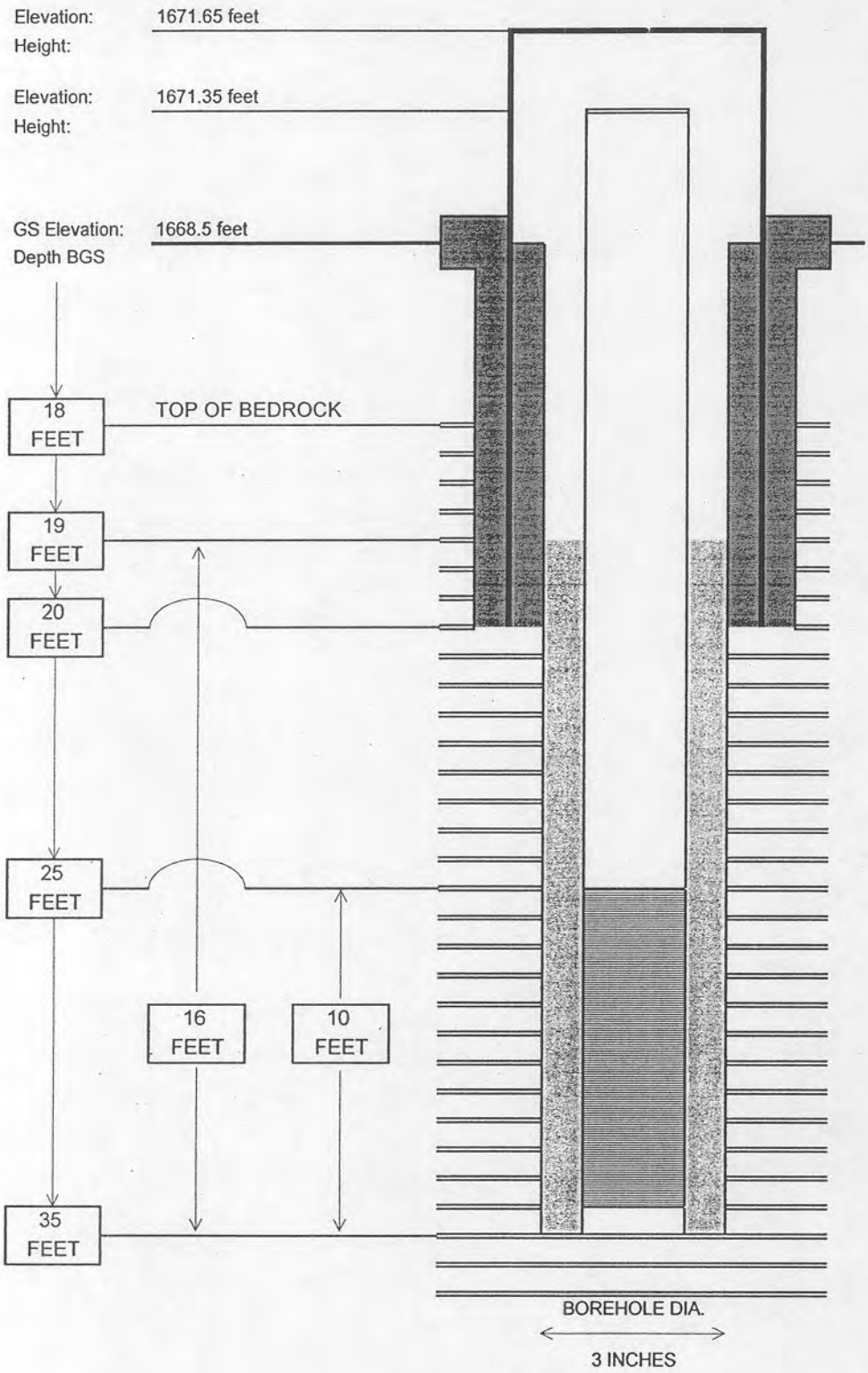


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	2 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	47 POUNDS
Amt bentonite:	5 POUNDS
Amt water:	5 GALLONS
Tremied:	NO
Interval BGS:	0-2 FEET
SEAL	
Material:	BENTONITE
Type:	CHIPS
Amount Used:	50 POUNDS
Interval BGS:	2-4 FEET
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	275 POUNDS
Grain Size Dist.:	#0
Interval BGS:	4-15 FEET
SCREEN	
Material:	PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01 INCHES
Interval BGS:	5-15 FEET
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

BEDROCK MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-1B	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS	N.A. SMITH / S.B. DILLMAN	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	MARCH 26, 1997	DATE END:	APRIL 10, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-1



PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	20 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
OUTER CASING	
Material:	STEEL
Diameter:	4 INCHES
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	564 POUNDS
Amt bentonite:	25 POUNDS
Amt water:	60 GALLONS
Tremied:	YES
Interval BGS:	0-27 FEET
SEAL	
Material:	N/A
Type:	N/A
Amount Used:	N/A
Interval BGS:	N/A
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	150 POUNDS
Grain Size Dist.:	#0
Interval BGS:	19-35 FEET
SCREEN	
Material:	PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01"
Interval BGS:	25-35 FEET
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

OVERBURDEN MONITORING WELL CONSTRUCTION LOG

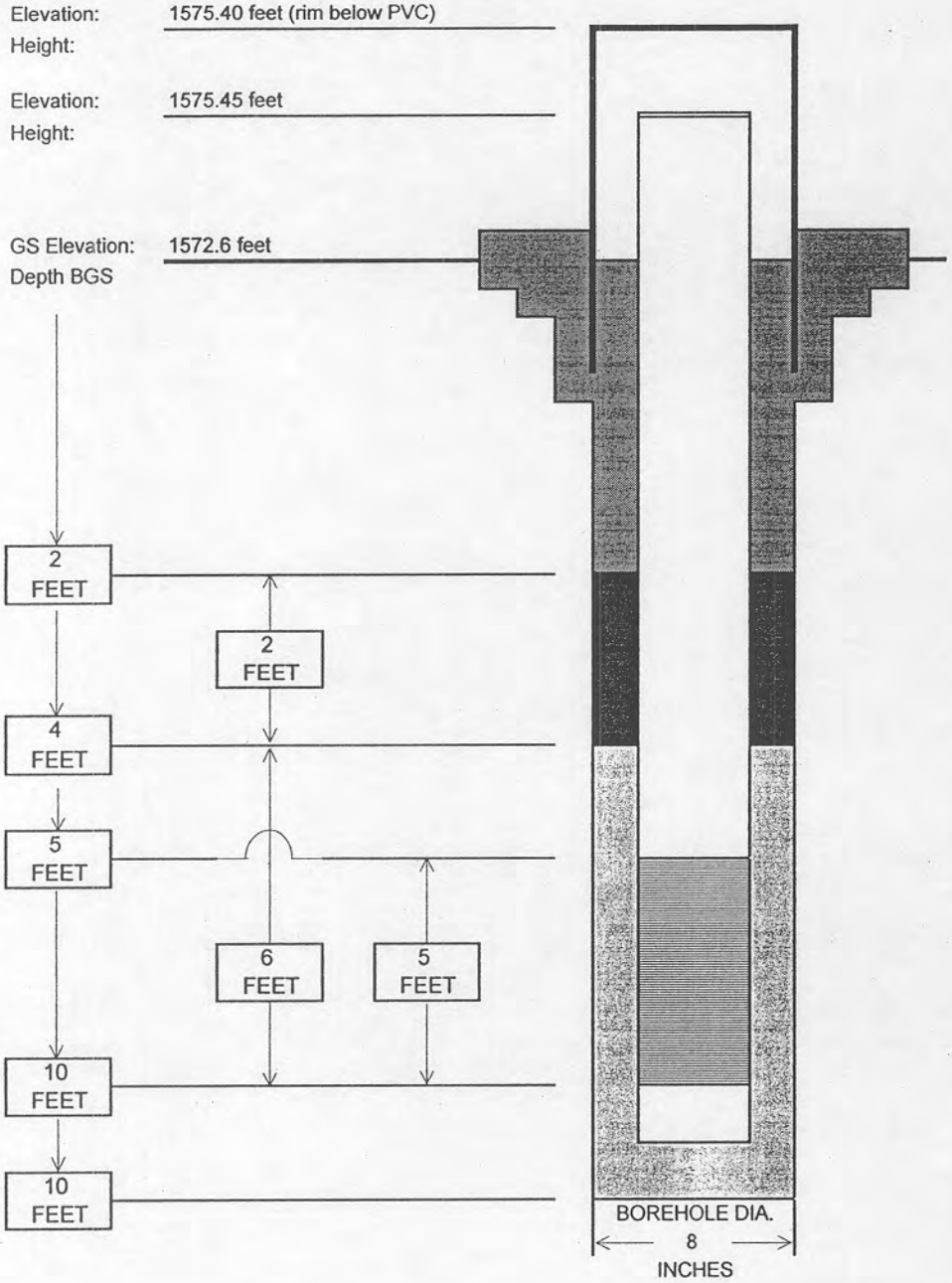
WELL NO.:	MW-2S	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	MARCH 27, 1997	DATE END:	MARCH 27, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-2

Elevation: 1575.40 feet (rim below PVC)
Height:

Elevation: 1575.45 feet
Height:

GS Elevation: 1572.6 feet
Depth BGS

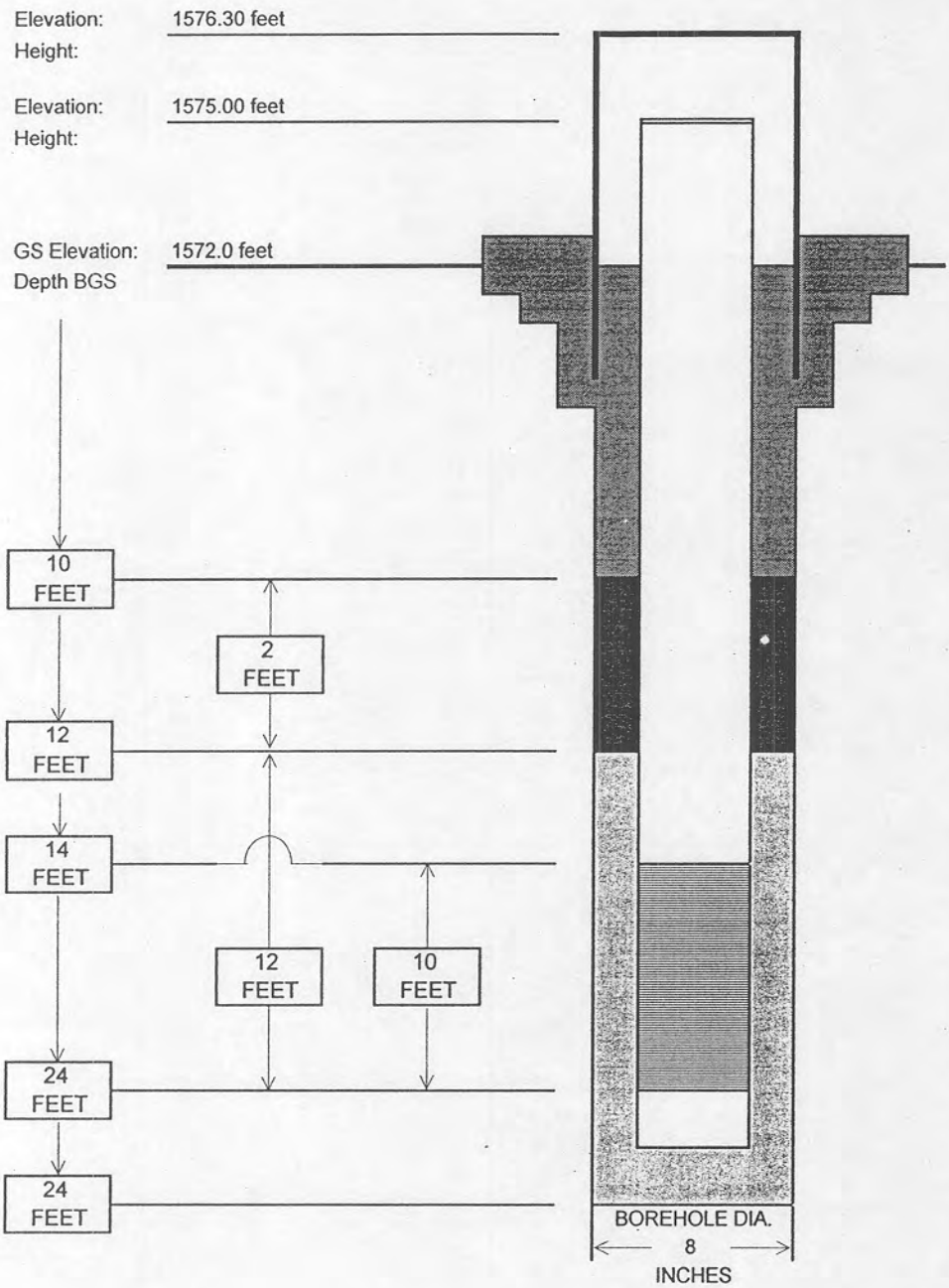


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	2 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	94 POUNDS
Amt bentonite:	8 POUNDS
Amt water:	10 GALLONS
Tremied:	NO
Interval BGS:	0-2 FEET
SEAL	
Material:	BENTONITE
Type:	CHIPS
Amount Used:	50 POUNDS
Interval BGS:	2-4 FEET
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	125 POUNDS
Grain Size Dist.:	#0
Interval BGS:	4-10 FEET
SCREEN	
Material:	PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01 INCHES
Interval BGS:	5-10 FEET
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

OVERBURDEN MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-2D	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH / C.R. TORELL	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	MARCH 27, 1997	DATE END:	APRIL 7, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-2

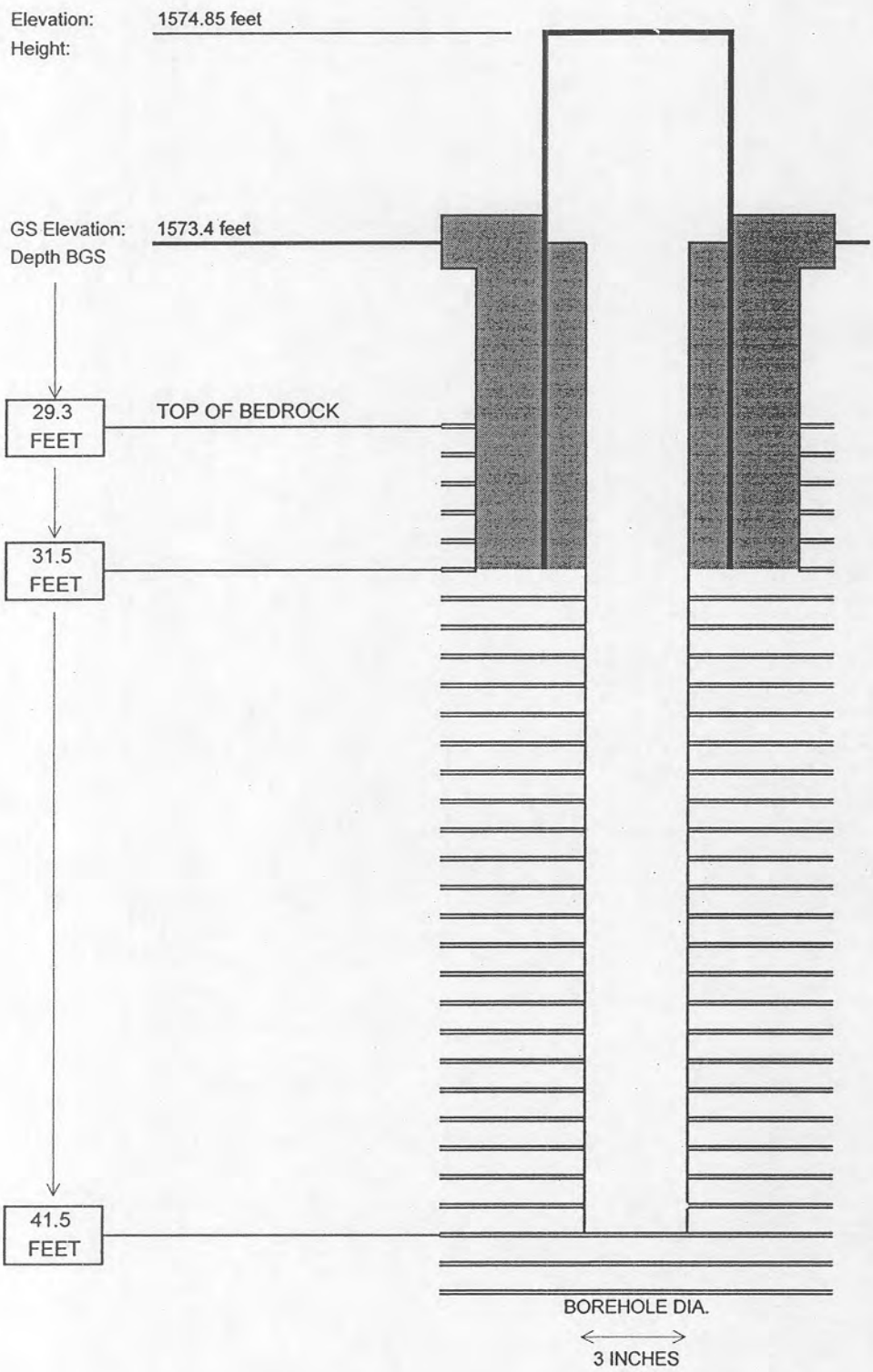


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	2 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	282 POUNDS
Amt bentonite:	25 POUNDS
Amt water:	20 GALLONS
Tremied:	NO
Interval BGS:	0-10 FEET
SEAL	
Material:	BENTONITE
Type:	CHIPS
Amount Used:	37.5 POUNDS
Interval BGS:	10-12 FEET
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	300 POUNDS
Grain Size Dist.:	#0
Interval BGS:	12-24 FEET
SCREEN	
Material:	PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01 INCHES
Interval BGS:	14-24 FEET
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

BEDROCK MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-2B	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH / C.R. TORELL	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	MARCH 27, 1997	DATE END:	APRIL 7, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-2

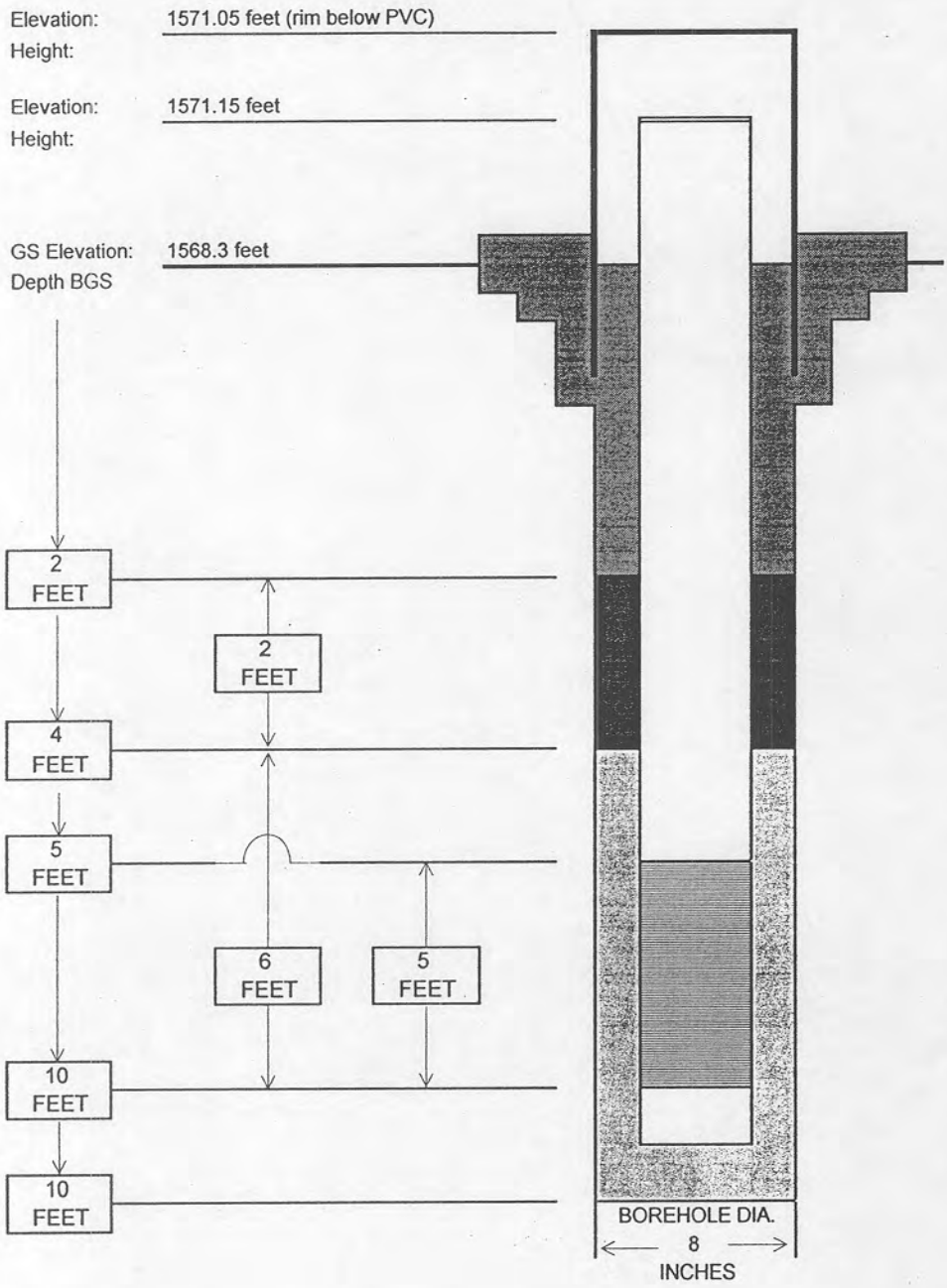


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	31.5 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
OUTER CASING	
Material:	STEEL
Diameter:	4 INCHES
RISER PIPE	
Material:	N/A - OPEN HOLE
Schedule:	N/A
Joint Type:	N/A
O-ring:	N/A
Diameter:	N/A
GROUT	
Amt cement:	470 POUNDS
Amt bentonite:	37.5 POUNDS
Amt water:	25 GALLONS
Tremied:	YES
Interval BGS:	0-31.5 FEET
SEAL	
Material:	N/A - OPEN HOLE
Type:	N/A
Amount Used:	N/A
Interval BGS:	N/A
FILTER PACK	
Material:	N/A - OPEN HOLE
Brand Name:	N/A
Amount Used:	N/A
Grain Size Dist.:	N/A
Interval BGS:	N/A
SCREEN	
Material:	N/A - OPEN HOLE
Diameter:	N/A
Slot Size & Type:	N/A
Interval BGS:	N/A
SUMP	
Interval BGS:	N/A - OPEN HOLE
Bottom Cap:	N/A
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

OVERBURDEN MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-3S	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	APRIL 3, 1997	DATE END:	APRIL 4, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-3

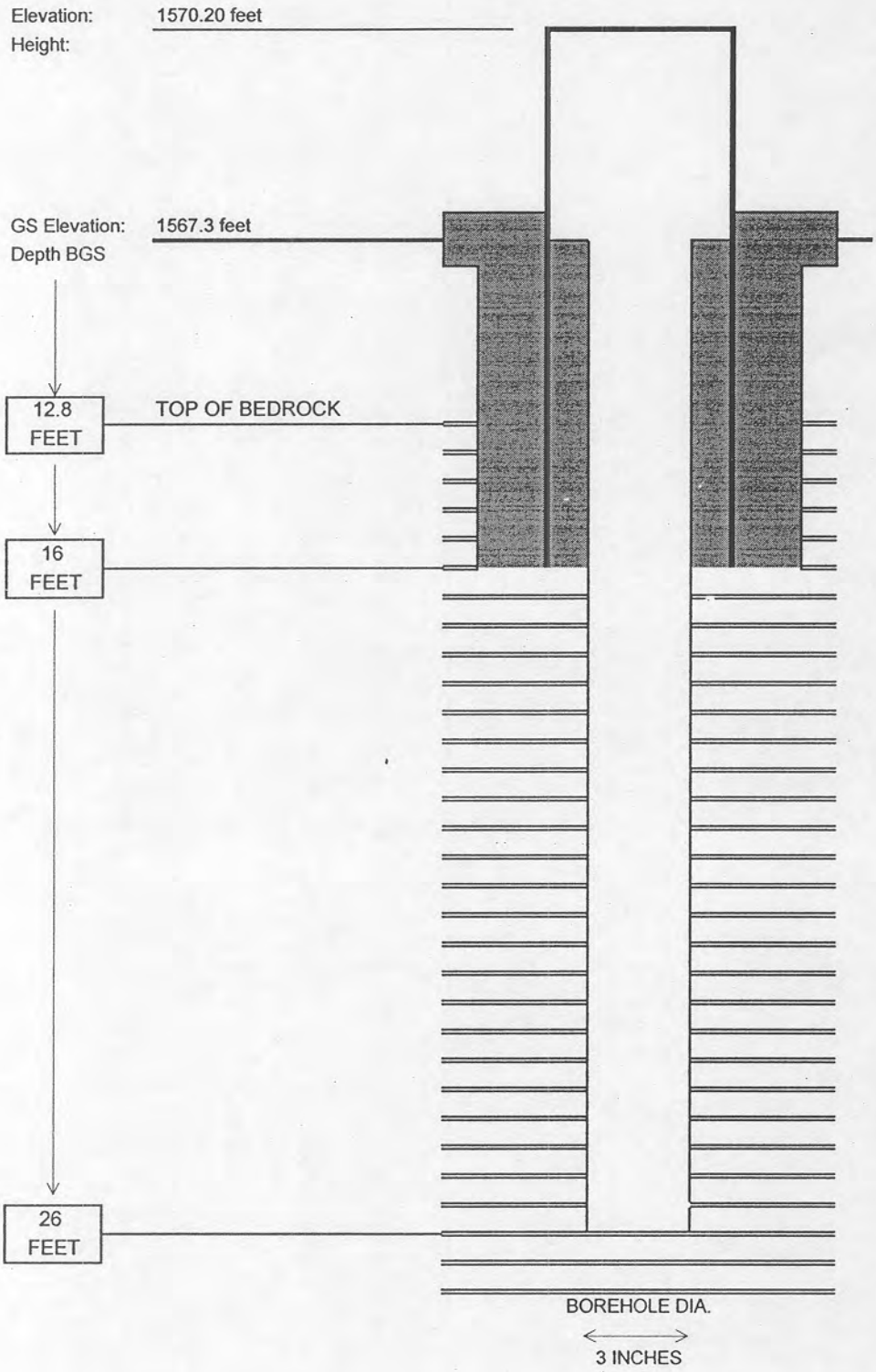


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	2 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	94 POUNDS
Amt bentonite:	8 POUNDS
Amt water:	10 GALLONS
Tremied:	NO
Interval BGS:	0-2 FEET
SEAL	
Material:	BENTONITE
Type:	CHIPS
Amount Used:	37.5 POUNDS
Interval BGS:	2-4 FEET
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	225 POUNDS
Grain Size Dist.:	#0
Interval BGS:	4-10 FEET
SCREEN	
Material:	PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01 INCHES
Interval BGS:	5-10 FEET
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

BEDROCK MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-3B	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH / S.B DILLMAN	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	APRIL 3, 1997	DATE END:	APRIL 9, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-3

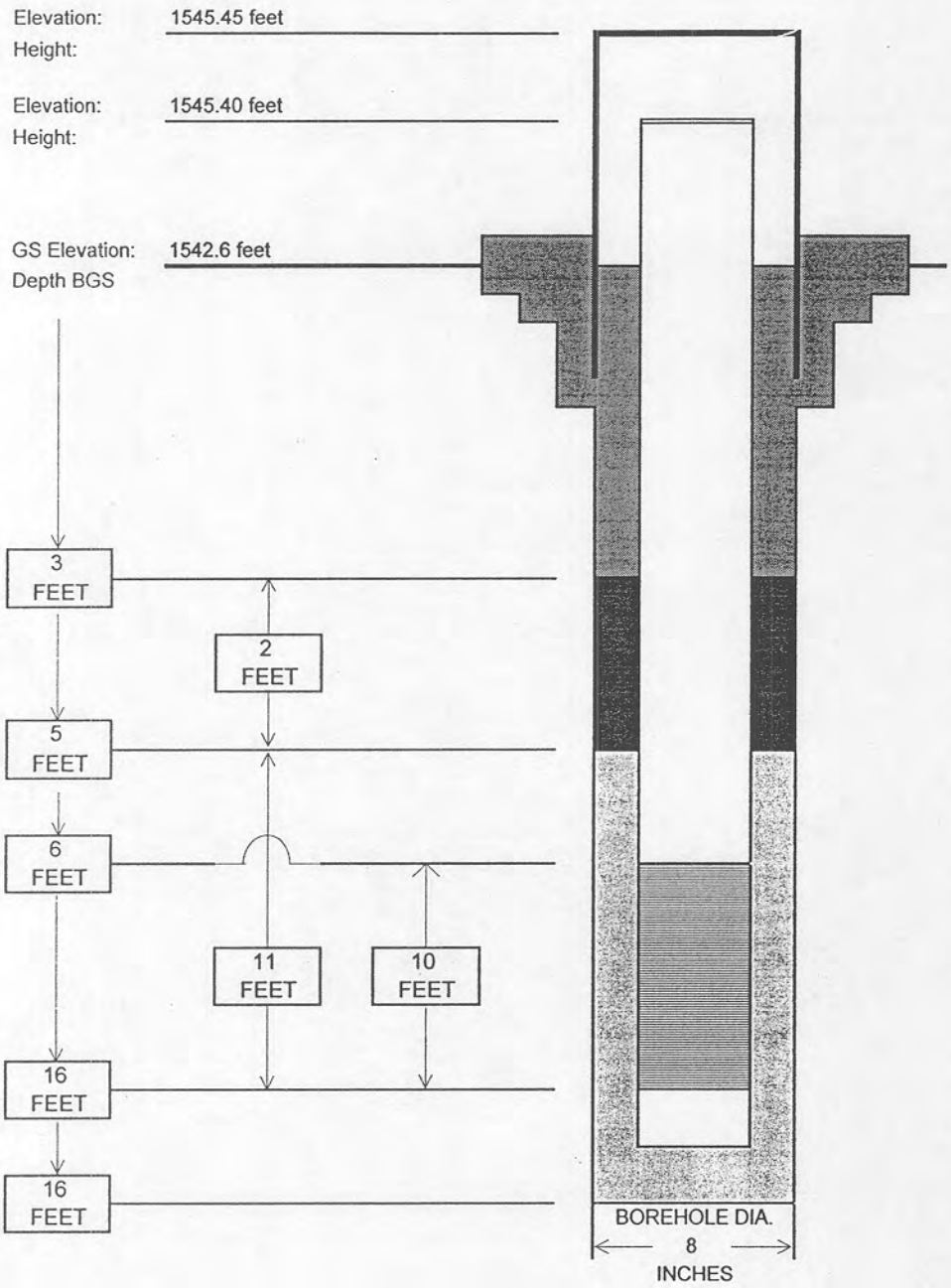


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	16 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
OUTER CASING	
Material:	STEEL
Diameter:	4 INCHES
RISER PIPE	
Material:	N/A - OPEN HOLE
Schedule:	N/A
Joint Type:	N/A
O-ring:	N/A
Diameter:	N/A
GROUT	
Amt cement:	188 POUNDS
Amt bentonite:	25 POUNDS
Amt water:	15 GALLONS
Tremied:	YES
Interval BGS:	0-16 FEET
SEAL	
Material:	N/A - OPEN HOLE
Type:	N/A
Amount Used:	N/A
Interval BGS:	N/A
FILTER PACK	
Material:	N/A - OPEN HOLE
Brand Name:	N/A
Amount Used:	N/A
Grain Size Dist.:	N/A
Interval BGS:	N/A
SCREEN	
Material:	N/A - OPEN HOLE
Diameter:	N/A
Slot Size & Type:	N/A
Interval BGS:	N/A
SUMP	
Interval BGS:	N/A - OPEN HOLE
Bottom Cap:	N/A
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

OVERBURDEN MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-4S	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH / C.R. TORELL	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	APRIL 8, 1997	DATE END:	APRIL 8, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-4

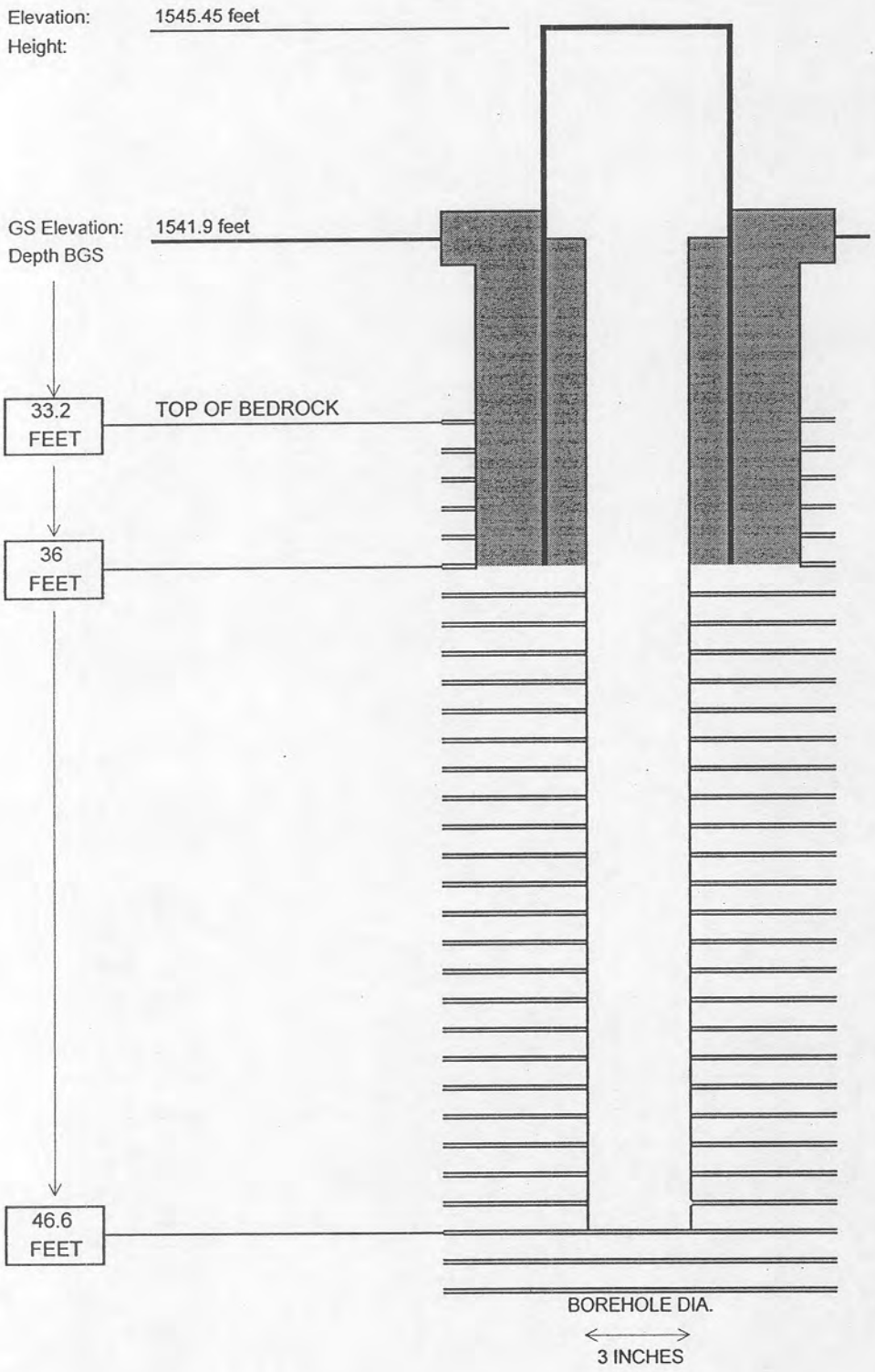


PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	2 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	94 POUNDS
Amt bentonite:	10 POUNDS
Amt water:	10 GALLONS
Tremied:	NO
Interval BGS:	0-3 FEET
SEAL	
Material:	BENTONITE
Type:	CHIPS
Amount Used:	50 POUNDS
Interval BGS:	3-5 FEET
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	350 POUNDS
Grain Size Dist.:	#0
Interval BGS:	5-16 FEET
SCREEN	
Material:	PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01 INCHES
Interval BGS:	6-16 FEET
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

BEDROCK MONITORING WELL CONSTRUCTION LOG

WELL NO.:	MW-4B	FACILITY/SITE NAME:	SOUTH HILL DUMP
PROJ. NO.:	729396.02000	CLIENT:	NYSDEC
INSPECTORS:	N.A. SMITH / C.R. TORELL	DRILLING CONTACTOR:	SJB SERVICES. INC.
DATE START:	MARCH 31, 1997	DATE END:	APRIL 8, 1997

AREA GEOLOGY DESCRIBED ON BORING LOG MW-4



PROTECTIVE CASING	
Material:	STEEL
Diameter:	4 INCHES
Depth BGS:	36 FEET
Water Tight Seal:	YES
Flushmount:	NO
Weep hole:	
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	N/A
Size:	N/A
OUTER CASING	
Material:	STEEL
Diameter:	4 INCHES
RISER PIPE	
Material:	N/A - OPEN HOLE
Schedule:	N/A
Joint Type:	N/A
O-ring:	N/A
Diameter:	N/A
GROUT	
Amt cement:	376 POUNDS
Amt bentonite:	42 POUNDS
Amt water:	20 GALLONS
Tremied:	YES
Interval BGS:	0-36 FEET
SEAL	
Material:	N/A - OPEN HOLE
Type:	N/A
Amount Used:	N/A
Interval BGS:	N/A
FILTER PACK	
Material:	N/A - OPEN HOLE
Brand Name:	N/A
Amount Used:	N/A
Grain Size Dist.:	N/A
Interval BGS:	N/A
SCREEN	
Material:	N/A - OPEN HOLE
Diameter:	N/A
Slot Size & Type:	N/A
Interval BGS:	N/A
SUMP	
Interval BGS:	N/A - OPEN HOLE
Bottom Cap:	N/A
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

WELL DEVELOPMENT DATA

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-1S

Site Name: South Hill Dump

Site No.: 712089

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	9:10	12.48	> 200	199	7.34	45.9	0
	9:30	15.36	> 200	143	7.73	41.5	5
	10:08	—	> 200	136	7.58	49.2	10
	11:20	—	> 200	135	7.58	44.1	15
	11:45	—	> 200	128	7.48	45.8	20
5/20/97	11:25	9.97	—	—	—	—	—
	14:18	—	—	—	—	—	40

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-1B

Site Name: South Hill Dump

Site No.: 712089

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	8:30	24.59	>200	150	7.82	50.4	0
	8:46	31.14	>200	138	7.45	50.4	6
	9:00	33.68	>200	161	7.32	55.0	10
	9:26	32.90	>200	151	7.37	51.1	15
	9:38	33.50	>200	157	7.55	51.1	20
	10:01	35.60	>200	170	7.45	58.6	25
	10:10	Well Dry	—	—	—	—	25+
	11:10	31.19	>200	166	7.60	49.2	30
	11:40	Well Dry	—	—	—	—	35
	11:55	—	>200	157	7.60	50.8	38
	12:00	—	—	—	—	—	40
5/20/97	11:25	22.10	—	—	—	—	—
	11:30	—	>200	85	7.10	15.3	12
	11:53	—	—	103	6.53	17.1	50
	13:10	—	—	106	6.45	50.3	55
	13:35	—	—	106	7.50	52.0	65
	14:30	—	—	100	7.01	18.8	75
	15:00	—	—	106	7.04	18.7	80

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-2S

Site Name: South Hill Dump

Site No.: 712009

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	13:05	10.95	–	–	–	–	Ø
	13:30	–	>200	282	6.86	47.8	1
	13:40	well Dry	–	–	–	–	2
	15:30	–	>200	267	7.57	46.6	2
	~15:32	well Dry	–	–	–	–	2.1
5/16/97	18:00	–	>200	199	6.82	41.8	2.1
	~18:02	Well Dry	–	–	–	–	2.2
5/20/97	9:25	11.99	–	–	–	–	2.2
	9:25	–	20.1	192	6.84	43.4	2.3

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-2D

Site Name: South Hill Dump

Site No.: 712009

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	13:07	18.12	—	—	—	—	Ø
	13:25	—	>200	216	6.95	47.6	2
	13:42	well Dry					6
	13:50	—	>200	240	7.26	47.8	7
5/16/97	15:03	—	>200	140	7.26	43.4	7
	~15:10	well Dry	—	—	—	—	9
5/20/97	9:30	—	30.5	140	7.01	41.0	9
	9:37	—	>200	113	7.10	43.7	14
	9:45	well Dry	—	—	—	—	19

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-2B

Site Name: South Hill Dump

Site No.: 712009

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	13:03	10.94	—	—	—	—	Ø
	13:20	16.80	>200	184	7.85	51.0	4
	13:47	29.72	>200	189	7.08	50.4	15
	14:10	38.14	>200	180	7.42	52.0	25
	14:25	Well Dry					
	15:20	26.52	>200	175	7.64	51.0	35
	15:50	31.66	>200	174	7.53	52.2	45
	16:35	31.08	>200	177	7.31	54.5	55
	17:20	31.72	70.2	114	7.30	52.2	65
	17:25	—	64.6	—	—	—	67
	17:36	—	49.8	—	—	—	68
	17:45	31.64	37.4	114	7.53	51.7	69

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-35

Site Name: South Hill Dump

Site No.: 712009

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	14:35	4.94	—	—	—	—	Ø
	16:55	—	>200	301	7.39	47.2	1
	17:00	well Dry	—	—	—	—	5
	17:15	—	—	—	—	—	8
5/16/97	14:32	—	>200	218	7.58	43.6	8
	14:45	Well Dry	—	—	—	—	16
5/20/97	10:00	3.94	19.45	336	7.20	47.0	16
	10:13	—	>200	190	7.02	45.0	22
	15:37	—	>200	178	7.35	47.2	26

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-3B

Site Name: South Hill Dump

Site No.: 712009

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/15/97	11:33	1.96	—	—	—	—	Ø
	16:58	—	>200	110	7.33	16.0	3
	17:20	well Dry	—	—	—	—	25
5/16/97	11:30	5.04	>200	229	7.60	11.9	25
	11:45	—	>200	228	6.96	12.0	45
	11:55	Well Dry	—	—	—	—	49
5/20/97	10:02	4.24	>200	350	6.99	16.0	49
	10:29	—	>200	154	7.17	15.0	64
	15:34	—	>200	182	7.19	15.4	69
	15:50	—	>200	185	7.50	17.5	81

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-1S

Site Name: South Hill Dump

Site No.: 712#89

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/16/97	12:33	6.00	—	—	—	—	Ø
	12:45	—	>200	173	7.46	43.6	Ø
	13:02	Well Dry	—	—	—	—	7.5
5/20/97	8:00	5.50	—	41.3	6.49	45.6	7.5
	8:19	—	—	118	6.63	43.2	15.5
	10:39	—	—	35.1	7.69	42.5	17.5
	10:45	—	—	120	7.11	41.0	22.5
	16:00	—	—	102	7.83	45.2	24.5

REMARKS:

WELL DEVELOPMENT OBSERVATIONS

Well Name: MW-4B

Site Name: South Hill Dump

Site No.: 712009

Date	Time	Water Level	Turbidity (NTU)	Conductivity (umhos/cm)	pH	Temperature (C/F)	Cumulative Gallons Removed
5/16/97	12:40	26.75	—	—	—	—	Ø
	12:50	—	>200	116	8.26	11.1	Ø
	12:55	—	>200	141	8.48	12.8	10
	13:09	—	>200	138	8.14	12.8	20
	13:19	—	>200	137	7.93	13.0	30
	13:30	—	>200	138	7.90	12.3	50
	13:50	—	>200	136	7.86	13.1	70
	14:20	—	>200	137	7.86	11.6	100
5/20/97	7:55	27.20	—	145	6.60	16.2	100
	8:05	—	—	139	6.41	11.8	110
	8:10	—	110.2	141	6.56	11.9	120
	8:20	—	110.3	139	6.71	11.0	130
	8:35	—	—	139	6.82	11.8	140
	8:45	—	148.5	138	6.89	11.1	150

REMARKS: