828108

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control

ADDITIONS/CHANGES TO REGISTRY: SUMMARY OF APPROVALS

SITE NAME: 640 TROLLEY BOULEVARD DEC I.D. NUMBER 828108

Current Classification 2a Volunteer Yes ____ No X
Sign (7) below

Activity: ☐ Add as Class ____ ☒ Reclassify to 2 ☐ Delist Category ____ ☐ Modify ____

Approvals:

1. Regional Hazardous Waste Engineer	Yes	X	No		4/19/02
2. BEEI of NYSDOH	Yes	X	No		5/13/2002
3. DEE	Yes	X	No		4/23/02
4. W. Stasko Remediation Action Bureau Director [Class 2]	Yes	X	No		4/26/2002
5. BHSC - Investigation Section	Yes	X	No		4/4/02
6. BHSC - O&M Section [Class 4]	Yes		No		N/A
7. BPM - Brownfield & Voluntary Cleanup Section	G.C. Tapon			Date	5/29/02
8. Site Control Section	Denise Sam			Date	5/30/02
9. Director	Robert W. Schick			Date	5/30/02

Completion Checklist for Registry Sites

		Completed By: Initials	Date
OWNER NOTIFICATION LETTER?	☑		6-17-02
ADJACENT PROPERTY OWNER NOTIFICATION LETTER?	☑		7-9-02
ENB / LEGAL NOTICE SENT? (For Deletion Only)	☐		
COMMENTS SUMMARIZED / PLACE IN REPOSITORY?	☐		
FINAL NOTIFICATION SENT TO OWNER? (For Deletion Only)	☐		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

4/1/02

SITE INVESTIGATION INFORMATION

1. SITE NAME	2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
640 Trolley Boulevard	828108	Gates	Monroe

5. REGION	6. CLASSIFICATION
8	CURRENT [2A] PROPOSED [2] MODIFICATION

7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle: Rochester West b. Site Latitude 43° 10' 22" Site Longitude 77° 41' 16"

c. Tax Map Number(s) 104.11-1-2.2 d. Site Street Address 640 Trolley Boulevard, Gates, NY 14606

8. BRIEFLY DESCRIBE THE SITE (Attach site map showing disposal/sampling locations)

640 Trolley Boulevard is located on the north side of Trolley Blvd. in the Town of Gates, Monroe County. The site is surrounded by commercial/industrial properties on the north, east and west. The closest water body is the Erie Canal located about 750 feet north of the site. In 1994, a spill was reported at the site due to a dumpster that was leaking cutting oils, waste latex and oil base paints, and possible solvents. Speedy dry was applied to the spilled liquid and the spill was later closed. In October 2000, a new tenant was removing trees and vegetation behind the back door and uncovered a dry well containing a brown oily liquid. Approximately 20 gallons of the liquid were pumped into drums and tested. The test results indicated that the material contained very high levels of PCBs, 1,1,1-trichloroethane and other chlorinated compounds, acetone and xylene. During the 2002 PSA 19.5 tons of hazardous waste (B007) were removed and disposed of . A site plot plan is attached.

a. Area 3 acres b. Completed: ( ) Env. Property Assessment (X) PSA () SI ( ) ESI (X) IRM ( )RI/FS ( ) Construction ( ) O&M

9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)

F002 - Spent 1,1,1-Trichloroethane
B007 - Other PCB wastes containing 50 ppm or greater of PCBs

10. ANALYTICAL DATA AVAILABLE

a. ( )Air (X)Groundwater (X)Surface Water (X)Sediment (X)Soil (X)Waste ( )Leachate ( )EPTox (X)TCLP
b. Contravention of Standards or Guidance Values

See attached "PSA Sample Summary"

11. **CONCLUSION**

There are consequential amounts of hazardous waste at this site. PCBs, and 1,1,1-TCA were disposed of in the drywell located immediately north of the rear door. Contamination remains in soil in addition to the 19.5 ton IRM removal of the drywell contents. PCBs are also in the soils and swale sediment throughout the rear yard of the building. Migration of contamination downgradient of the drywell was not confirmed due to the lack of wells downgradient. Local groundwater flow is southeast from the drywell toward the building.

a. Institutional Controls (IC) Required? ( )Y (X)N b. If yes, identify c. Are these ICs in place and verified? ( ) Y (X)N

12. SITE IMPACT DATA

a. Nearest Surface Water: Distance 700ft.	Direction: North	Class B- NYS Barge Canal	
b. Groundwater: Depth 14 - 17ft.	Flow Direction Southeast	( )Sole Source ( )Primary ( )Other High-Yield Aquifer	
c. Water Supply: Distance 7.5 miles	Direction: North - Lake Ontario	Active (X)Yes ( )No	
d. Nearest Building: Distance 0ft.	Direction: on site	Use: Commercial	
e. Documented fish or wildlife mortality?	( )Y (x)N	h. Exposed hazardous waste?	( )Y (x)N
f. Impact on special status fish or wildlife resource?	( )Y (x)N	i. If proposed Classification is 2, Priority?	( ) 1 ( ) 2 (x) 3
g. Controlled Site Access?	( )Y (x)N	j. EPA ID# NYR00010367132162	HRS Score NA

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Emerson Enterprises, LLC	P.O. Box 425, New York 14534	585-426-5570

16. PREPARER	17. APPROVED
A. Joseph White 4/3/02	Robert L. Marino 5/30/02
Signature Date	Signature Date
A. Joseph White, EE II, Bureau of Hazardous Site Control, EIS	ROBERT L. MARINO, Director BHSC
Name, Title, Organization	Name, Title, Organization

STATE OF NEW YORK
DEPARTMENT OF HEALTH

FILE

Flanigan Square, 547 River Street, Troy, New York 12180-2216

Antonia C. Novello, M.D., M.P.H., Dr.P.H.
Commissioner

Dennis P. Whalen
Executive Deputy Commissioner

May 10, 2002

Mr. Dennis Farrar, Chief
Site Control Section
Bureau of Hazardous Site Control
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
625 Broadway, 11th Floor
Albany, New York 12233-7015

Re: Classification Package
640 Trolley Boulevard Site
Site #828108
Gates (T), Monroe County

Staff reviewed the Classification Package for the 640 Trolley Boulevard site, located in Gates, Monroe County. I understand that in October 2000 a dry well was discovered on the property and analysis of the well's contents indicate significantly elevated levels of polychlorinated biphenyls (PCBs), 1,1,1,-trichloroethane (TCA), acetone, xylene and other chlorinated compounds. Although the dry well was excavated during a preliminary site assessment investigation and 19.5 tons of visibly contaminated material were removed, post-excavation sample analysis of the remaining soil indicates that significant levels of contaminants remain in the dry well area. PCBs were also found in on-site soils and in on-site and off-site drainage ditch sediments.

I also understand that groundwater quality data have not been established for this site and the extent of contamination at and near the site requires further investigation. Two active commercial facilities currently occupy the site and the potential exists for human exposure to elevated levels of site-related contaminants. With this information, I concur with the proposal to list this site on the NYS Registry of Inactive Hazardous Waste Disposal Sites as a class 2. The signed decision form is enclosed.

If you have any questions, please contact Mark VanValkenburg of my staff at 402-7860.

Sincerely,

Gary A Litwin, Director
Bureau of Environmental Exposure Investigation

Enclosure

Appendix 2-1

CLASSIFICATION WORKSHEET

Site: 640 TROLLEY BOULEVARD County: MONROE Region 8

1. Hazardous waste disposed? ☒ Y (to 2) ☐ N (Stop) ☐ U (Stop)
2. Consequential amount of hazardous waste? ☒ Y (to 3) ☐ N (Stop) ☐ U (Stop)
3. Part 375-1.4(a)(1) applies? ☐ N (to 4) ☐ U (to 4)
   ☒ Y (as checked below; Class 2; to 5)

☐ a. endangered or threatened species
☐ b. streams, wetlands or coastal zone
☐ c. bioaccumulation
☐ d. fish, shellfish, crustacea or wildlife
☐ e. fire, spill, explosion or toxic reaction
☒ f. proximity to people or water supplies

4. Part 375-1.4(a)(2) applies? ☐ N (Cl 3; Stop) ☐ U (Cl 2a; Stop)
   ☐ Y (Class 2; to 5) _____

5. Factor(s) considered in making this determination:
Hazardous waste remains on site in the vicinity of the drywell and extends to the bedrock (4' deep). Migration to the groundwater (i.e. drywell use) makes it likely that contamination extends to the groundwater.

SUMMARY

Consequential Hazardous Waste ☒ Yes ☐ No ☐ Unknown

Significant Threat ☒ Yes ☐ No ☐ Unknown

Proposed Classification 2 Site Number 8-28-108

4/2/02
Date

A. Joseph White
Signature and Title

APPENDIX 3

4/28/95

NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH
INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORKSHEET

SITE I.D. 8-28-108 SITE NAME 640 TROLLEY BOULEVARD

Priority I - Sites for which remediation should supersede all other Class 2 sites. Priority I can be assigned if any one of the following questions can be answered affirmatively.

a) Has a public or private water supply which is currently in use been contaminated or threatened?..... NO
b) Has human exposure to contaminants (or the potential for exposure) been identified which represents a significant health risk as determined by DOH?..... NO
c) Has bioaccumulation of site contaminants in flora or fauna resulted in a health advisory?..... NO
d) Are site contaminants present at levels that are acutely toxic to fish or wildlife or that have caused documented fish or wildlife mortality?..... NO
e) Is there a potentially responsible party or volunteer ready, willing and able to proceed with remediation?..... NO

☐ (1)

[If 1 or more boxes are checked, check this box]

° **Priority II** - Important Sites. Priority II will be assigned if any of the following questions can be answered affirmatively.

a) Has a Class A or AA surface water body or a primary or principal aquifer been contaminated or threatened without contaminating or threatening an existing water supply?..... NO
b) Has bioaccumulation of site contaminants in flora or fauna resulted in actionable levels (but not a health advisory)?.... NO
c) Are contaminants at levels chronically toxic to fish/wildlife?..... NO
d) Have endangered, threatened or rare species, significant habitats, designated coastal zone or regulated wetlands been impacted by releases from the site?..... NO

☐ (2)

[If 1 or more boxes are checked, check this box]

° **Priority III** - will be assigned unless one or more of the site prioritization criteria, specified above, apply to a site. After remedial needs for Priority I and II sites have been accommodated, remediation of sites under this category can be considered. If priority III, check box 3.

☒ (3)

Enter the number of the priority box checked 1, 2, or 3 here..... 3 (4)
This is the site's priority rank.

FACTORS

IJC Factor - If the site has been identified by the International Joint Commission (IJC) as a component in a remedial action plan, subtract (1) from the value in box 4 and enter the result in box 5..... ☐ (5)

EDZ Factor - If the site is within a New York State designated Economic Development Zone (EDZ) should this fact cause the site priority to be raised?.. Yes ☐ No ☑

Community Support Factor - If the site has been targeted for local government-supported development, should this fact cause the site priority to be raised?..... Yes ☐ No ☑

If either "yes" box is checked, subtract 1 from the value in box 4 and enter the result into box 6. If "no" is checked, the value in box 6 equals box 4 (or box 5 if applicable). If both IJC and EDZ/Community Support factors apply, only 1 (not 2) will be subtracted form the value in box 4. The resultant value in box 6 will never be less than 1..... 3 (6)

IRM NOTE: Should this site be considered a candidate for an Interim Remedial Measure (IRM) as defined by 6NYCRR Part 375-1.3n?..... Yes ☐ No ☑

If "yes", please explain why: _____

Preparer A. Joseph White Date 4/2/02

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Inactive Hazardous Waste Disposal Report

Site Name: **640 Trolley Boulevard** **Site Code:** **828108**
Class Code: **2** Region: **8** County: **Monroe** EPA Id:
Address: **640 Trolley Boulevard / Rochester, NY 14606**
Latitude: **43° 10' 26"** Longitude: **77° 41' 14"**
Site Type: **Structure** Estimated Size: **3 Acres**

Site Owner / Operator Information:
Current Owner(s) Name: **Emerson Enterprises**
Current Owner(s) Address: **PO Box 425 / Pittsford, NY 14534**
Owner(s) during disposal: **Emerson Enterprises**
Operator(s) during disposal: **Kenneth Crosby - New York, Inc.**
Stated Operator(s) Address: **1001 Lexington Avenue / Rochester, NY 14606**
Hazardous Waste Disposal Period: **From: unknown To: 2000**

Site Description:
The site is located on the north side of Trolley Boulevard, in the Town of Gates. It is surrounded by commercial and industrial properties on the north, east and west, and a residential area is located south of Trolley Boulevard. The building on the property was constructed in the 1960s. The Clark Witbeck Company, Inc. operated a business here from the 1960s until 1992, when it declared bankruptcy. Clark Witbeck reportedly distributed abrasives, cutting tools, fasteners, and other products. In 1992, the assets of the Company were purchased by Kenneth Crosby, Inc. (KCI). KCI continued the business under the name Kenneth Crosby - New York, Inc. KCI owned three other businesses which were also located on the site; T.T. Bearing Co., Inc., Rochester Tool Corp. and Jasco Tool. KCI and the other companies moved off the property in March of 2000. In 1994, a dumpster located on site was found to have leaked, causing a spill of cutting oils, waste latex and oil based paints, and possible solvents on the ground. The spill was reported and the liquid was covered over with "speedy dry" as a corrective measure. In October of 2000, a new tenant on the property discovered an uncovered dry well as he was cutting and removing trees and brush behind a building. The dry well contained a brown oily liquid. Approximately 20 gallons of this liquid was pumped into a drum, then later sampled. Analysis revealed that the oily liquid contained elevated levels of PCBs, 1,1,1-trichloroethane and other chlorinated solvents as well as acetone and xylene. The dry well area was excavated in January of 2002. Approximately 40 cubic yards of waste was removed from this area and was disposed as hazardous waste (B007). A Preliminary Site Assessment (PSA) was completed in March 2002.

Confirmed Hazardous Waste Disposal:	**Quantity:**
Spent 1-1-1-trichloroethane (F002 Waste)	unknown
Other PCB Wastes (B007 Waste)	40 cubic yards (approx.)

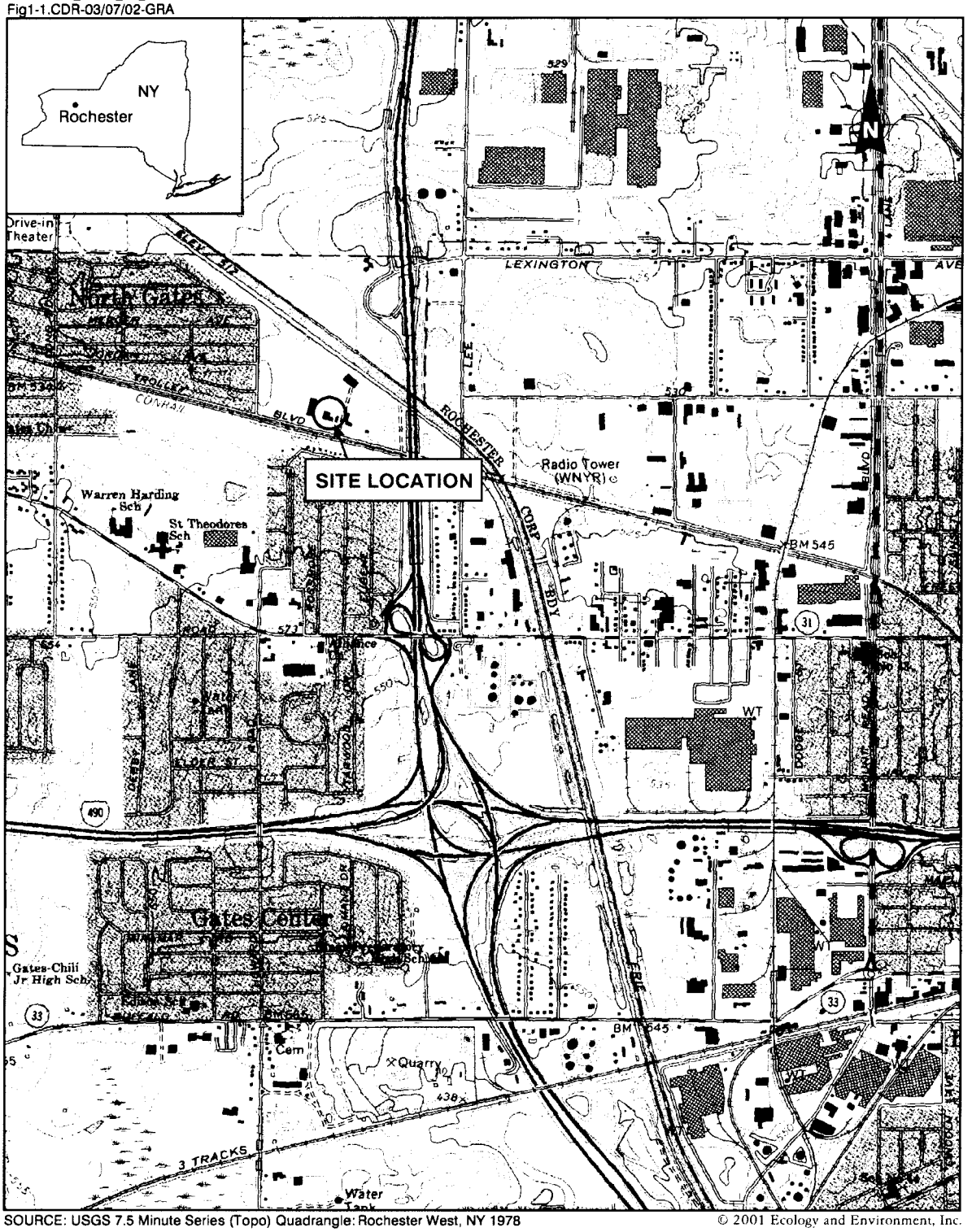
Analytical Data Available for:
Applicable Standards Exceeded in:
Geotechnical Information:
Soil/Rock Type: **Glacial till over dolomitic bedrock.**
Depth to Groundwater: **Range: 10 to 15 feet.**

Legal Action: Type: Status:
Remedial Action: Nature of action:

Assessment of Environmental Problems:
Soils at the site, in the vicinity of the former dry-well have been found to be contaminated with PCBs and 111-trichloroethane. The groundwater is likely contaminated from the use of the dry-well as well as from the residual contamination in soils. Surface soils at the site are contaminated with PCBs in the 1 ppm range.

Assessment of Health Problems:
Exposure to site-related contaminants in drinking water is not expected as the area is served by public water. A Preliminary Site Investigatio is planned which will characterize the nature and extent of contamination. Potential human exposure pathways will be evaluated during this investigation.

02:000699_NY08_03_02
Fig1-1.CDR-03/07/02-GRA



SOURCE: USGS 7.5 Minute Series (Topo) Quadrangle: Rochester West, NY 1978

SCALE 1:24,000

0 ½ 1 Mile

0 .5 1 Kilometer

Figure 1-1 SITE LOCATION MAP
640 TROLLEY BLVD PSA SITE
ROCHESTER, NEW YORK

PSA Sample Summary

640 Trolley Boulevard
April 1, 2002

MEDIA	CONTAMINANT OF CONCERN	CONCENTRATION RANGE (ppb)	FREQUENCY of DETECTION	SCG (ppb)
Surface Soil	PCBs	6 to 200,000	6 of 9	1000
	Mercury	ND to 390	5 of 9	100
	Pesticides	ND (1.7) to 9,060	8 of 9	
	PAHs	ND(450) to 168,310	8 of 9	
	cPAHs (subset of PAHs)	ND(.360) to 72,900	5 of 9	
Subsurface Soil Well Boreholes	PCBs	1800	1 of 5	10,000
	Pesticides	ND(2) to 134	4 of 5	
	PAHs	ND(360) to 17,460	4 of 5	
	cPAHs (subset of PAHs)	ND(330) to 3740	1 of 5	
Sediment	PCBs	ND(42) to 2,600	2 of 5	
	Pesticides	25 to 612	5 of 5	
	PAHs	2,972 to 384,300	5 of 5	
	cPAHs (subset of PAHs)	ND(13000) to 175,100	4 of 5	
Groundwater	1,1,1 TCA	ND(10) to 240	2 of 5	5
	1,1 DCA	ND(10) to 83	2 of 5	5
Surface Water	Pesticides	0.191 to 0.304	2 of 2	
	PAHs	ND(.010) to 58	1 of 2	
	cPAHs (subset of PAHs)	ND(.010) to 19	1 of 2	
Geoprobe Soil Samples	PCBs	500 to 15,000	22 of 22	1000
Test Trench Soils	PCBs	36,000 to 1,400,000	7 of 7	1000
	1,1,1 TCA	ND(1400) to 190,000	5 of 7	800
	Pesticides	1,275 to 57,078	7 of 7	2000
	1,1 DCA	ND(11) to 45,000	4 of 7	200
	PAHs	ND(11000) to 32,690	5 of 7	
	cPAHs (subset of PAHs)	ND (330) to 5,790	3 of 7	

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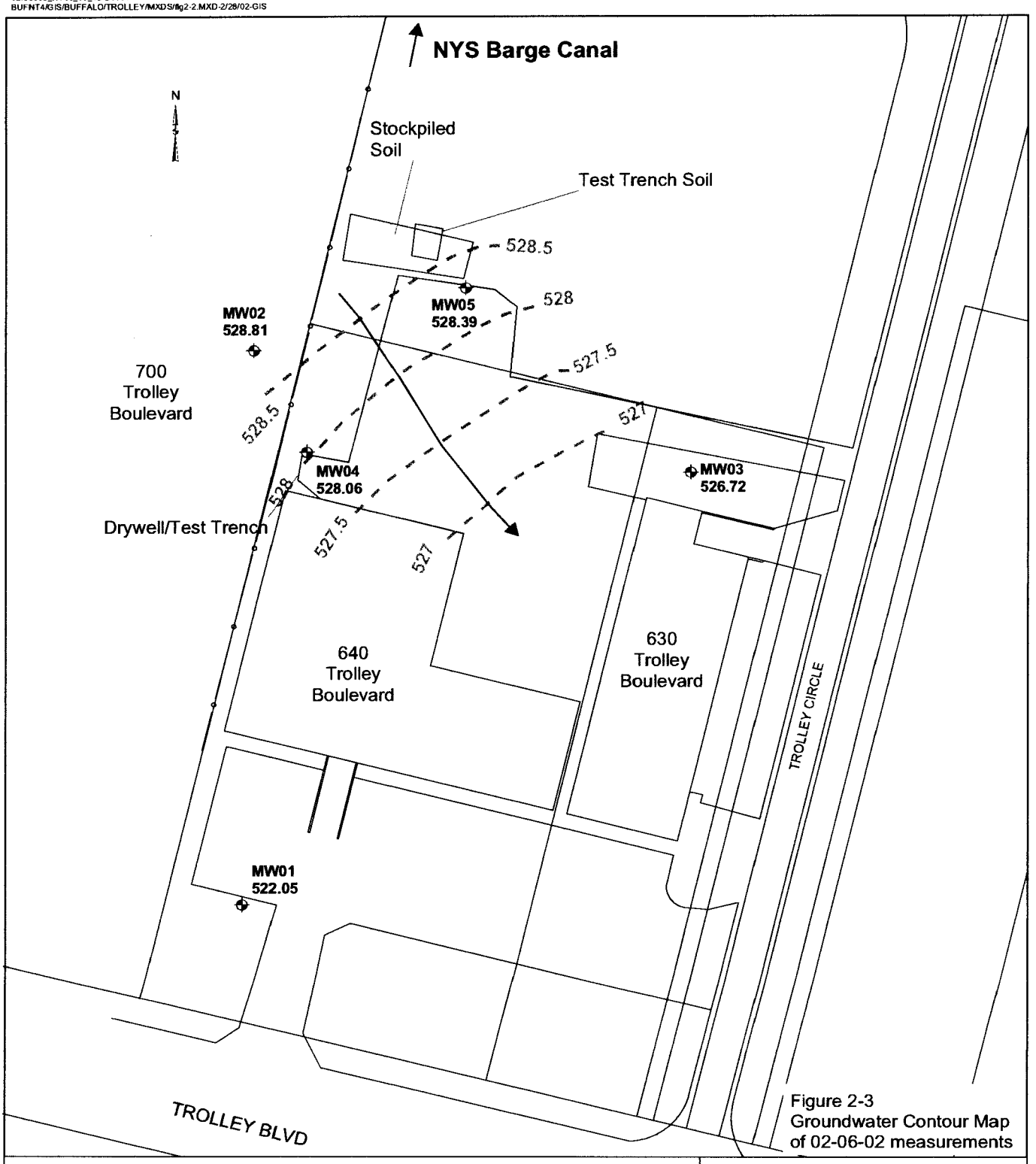

Figure 2-3
Groundwater Contour Map
of 02-06-02 measurements

Legend

- Monitoring Well
- Inferred Groundwater Contours
- 519.47 Groundwater elevation in feet above mean sea level
- Groundwater flow direction

The Water Elevation in NYS Barge Canal is 506.65 feet AMSL

Scale 1:720

1 inch equals 60 feet

0 10 20 40 60 80 Feet

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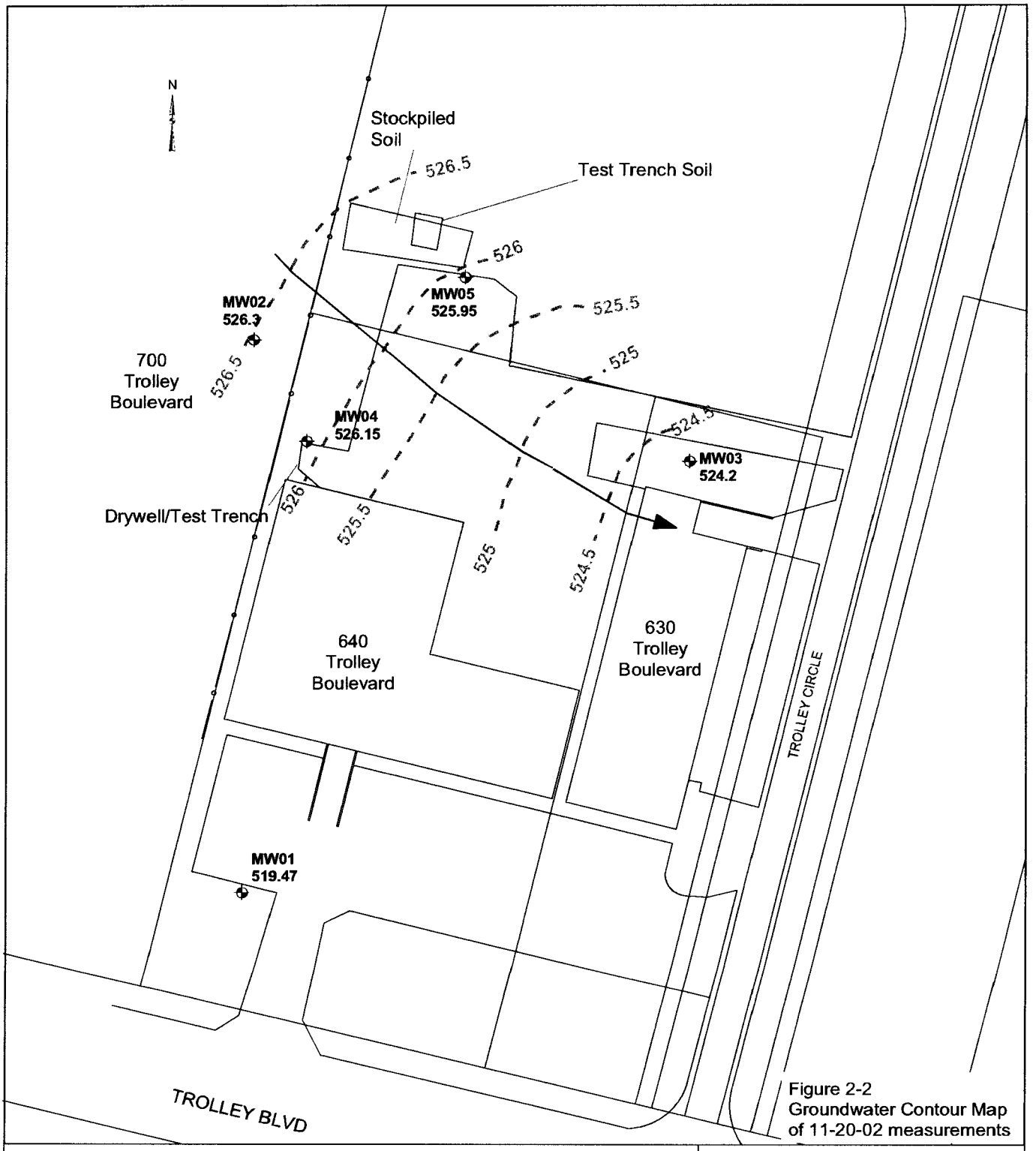

Figure 2-2
Groundwater Contour Map
of 11-20-02 measurements

Scale 1:720

1 inch equals 60 feet

0 10 20 40 60 80 Feet

Legend

- Monitoring Well
- Inferred Groundwater Contours
- 519.47 Groundwater elevation in feet above mean sea level
- Groundwater flow direction

The Water Elevation in NYS Barge Canal is not available

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Table 2-11 Summary of Positive Analytical Results for the Solid Waste Sample

Analyte	Sample ID: / Date: STOCKPILE-DRY 11/16/01
Pesticide/PCB by Method OLM04.2 (µg/Kg)	
Aroclor 1254	1900000 J
4,4′-DDE	3000 J
4,4′-DDT	25000 J
Aldrin	160 J
Endrin	28000 J
Endrin ketone	220 J
gamma-Chlordane	24000 J
Heptachlor epoxide	17000 J
TCLP Pesticides by Method 8081A (mg/L)	
No TCLP Pesticides detected in the IDW sample	
TCLP SVOC by Method 8270C (mg/L)	
No TCLP SVOCs detected in the IDW sample	
TCLP VOCs by Method 8260B(mg/L)	
No TCLP VOCs detected in the IDW sample	
TCLP Metals by ICP Method 6010B/7470A (mg/L)	
Arsenic	0.021 J
Barium	0.32 J
Chromium	0.010 J
Lead	0.018 J
Selenium	0.031 J
Silver	0.0091 J
Ignitability (Flashpoint) by Method 1030 (mm/sec)	
Ignitability	Did Not Ignite

Key:

$CaCO_3$ = Calcium carbonate.
DRY = Drywell.
IDW = Investigation-derived waste.
J = Estimated value.
mg/L = Milligrams per liter.
mm/sec = Millimeters per second.
PCB = Polychlorinated biphenyls.
SVOC = Semivolatile organic compound.
TCLP = Toxicity Characteristic Leachate Procedure.
VOC = Volatile organic compound.
µg/Kg = Micrograms per kilogram.

Table 3-1 Summary of Positive Analytical Results for the Sediment Samples, 640 Trolley Boulevard

NYSDEC Sediment Screening Criteria [1]	Analyte	Sample ID:	640-SD01	640-SD02	640-SD03	640-SD04	640-SD04/D	640-SD06
		Depth (in):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
		Date:	11/06/01	11/07/01	11/07/01	11/07/01	11/07/01	11/16/01
VOCs by Method OLM04.2 (µg/Kg)								
NA	Acetone		19	13 U	13 U	13 U	13 U	14 U
Metals by Method ILM04.0 (mg/Kg)								
NA	Aluminum		5420	1770	5630	4930	4420	5180
2	Antimony				2.0 J			
6	Arsenic							
NA	Barium		41.8 J	12.1 J	41.0 J	71.4	65.1	58.5
NA	Beryllium		0.39 J	0.15 U	0.45 J	0.37 J	0.33 J	0.39 J
0.6	Cadmium			0.32 J	0.37 J			
NA	Calcium		72800	90900	43900	92600	87100	94100
26	Chromium		9.9	4.4	9.4	16.5	15.5	21.6
NA	Cobalt		4.5 J	2.7 J	4.4 J	6.4 J	5.1 J	4.6 J
16	Copper			10.3	10.2			
20000	Iron		14300	9350	13200	15200	13200	11800
31	Lead			14.7	30.2			
NA	Magnesium		34900	47500	21000	40800	40600	43600
460	Manganese		266	252	309			243
0.15	Mercury		0.077 U	0.053 U	0.067 U	0.11 J	0.063 U	
16	Nickel			4.7 J	7.6 J	12.8	11.0	13.7
NA	Potassium		826 J	492 J	649 J	1120 J	892 J	1040 J
NA	Selenium		2.2	2.7	2.7	2.1	2.5	1.9 J
1	Silver							
NA	Sodium		169 U	159 U	175 U	259 U	237 U	148 J
NA	Thallium		2.0 J	2.2 U	2.8 U	3.5 U	1.3 U	1.4 U
NA	Vanadium		11.3 J	5.0 J	11.7 J	11.0 J	9.8 J	18.5
120	Zinc			40.5 J	68.4 J			
Total Cyanide by ILM04.0 (mg/Kg)								
NA	Cyanide		0.076 U	0.11 J	0.14 J	0.38 J	0.32 J	0.13 J
Total Organic Carbon (mg/Kg)								
NA	Total Organic Carbon		45300	61200	23900	85800	78400	NS

[1] New York State Department of Environmental Conservation, Guidance for Screening Contaminated Sediments, 1999. The criteria for organic compounds are calculated based on the average TOC of 5.89 %. The lowest value from the available criteria was used (lowest effect level for the metals, and the lowest of human health bioacumulation, wildlife bioaccumulation, benthic life chronic and acute toxicity).

Key:

J = Estimated value.
mg/Kg = Milligrams per kilogram.
NA = Criterion not available.
NS = Not sampled for this analysis.
PCB = Polychlorinated biphenyls.
SVOC = Semivolatile organic compound.
U = Not detected at the reported value.
VOC = Volatile organic compound.
µg/Kg = Micrograms per kilogram.

Table 3-2 Summary of Positive Analytical Results for Surface Water Samples, 640 Trolley Boulevard

NYSDEC Class D Surface Water Criteria [1]	Analyte	Sample ID: Date:	640-SW02 11/12/01	NYSDEC Groundwater Criteria [2]	640-SW05 11/12/01
Pesticide/PCB by Method OLM04.2 (µg/L)					
0.000007 [H(FC)]	4,4'-DDE			0.2	0.10 U
0.00001 [H(FC)]	4,4'-DDT			0.2	0.10 U
0.007 [H(FC)]	beta-BHC		0.014 U	0.04	0.022 J
0.0000006 [H(FC)]	Dieldrin		0.10 U	0.004	
0.22 (standard for endosulfan)	Endosulfan I		0.023 J	NA	0.096
0.22 (standard for endosulfan)	Endosulfan II		0.10 U	NA	0.048 J
0.22 (standard for endosulfan)	Endosulfan sulfate		0.078 J	NA	0.10 U
0.002 [H(FC)]	Endrin			ND	
NA	Endrin ketone		0.10 U	5 [3]	0.041 J
0.0003 [H(FC)]	Heptachlor epoxide			0.03	0.032 U
NA	Methoxychlor		0.17 J	35	0.049 U
Semivolatile Organics by Method OLM04.2 (µg/L)					
NA	4-Nitrophenol		25 U	NA	3 J
0.23 [3]	Benz(a)anthracene		10 U	0.002 [3]	
0.0012 [3]	Benzo(a)pyrene		10 U	ND	
NA	Benzo(b)fluoranthene		10 U	0.002 [3]	
NA	Benzo(g,h,i)perylene		10 U	NA	5 J
NA	Benzo(k)fluoranthene		10 U	0.002 [3]	
NA	Bis(2-ethylhexyl)phthalate		10 U	5	5 J
NA	Carbazole		10 U	NA	1 J
NA	Chrysene		10 U	0.002 [3]	
NA	Dibenz(a,h)anthracene		10 U	NA	1 J
NA	Fluoranthene		10 U	50	10
NA	Indeno(1,2,3-cd)pyrene		10 U	0.002 [3]	
45 [3]	Phenanthrene		10 U	50 [3]	5 J
42 [3]	Pyrene		10 U	50 [3]	6 J
VOCs by Method OLM04.2 (µg/L)					
NA	No VOCs were detected in the surface water samples				

Table 3-2 Summary of Positive Analytical Results for Surface Water Samples, 640 Trolley Boulevard

NYSDEC Class D Surface Water Criteria [1]	Analyte	Sample ID: Date:	640-SW02 11/12/01	NYSDEC Groundwater Criteria [2]	640-SW05 11/12/01
Metals by Method ILM04.0 (µg/L)					
100	Aluminum		444 U	NA	2840 J
340	Arsenic		12.9	25	7.6 J
NA	Barium		32.3 J	1,000	38.4 J
NA	Beryllium		0.24 U	3	0.33 J
NA	Calcium		109000 J	NA	45900 J
1541.1 CV	Chromium		0.98 U	50	9.6 J
42.22 CV	Copper		5.7 U	200	27.1
300	Iron			300	
353.95 CV	Lead		12.3	25	17.4
NA	Magnesium		22900	35,000 [3]	8890
NA	Manganese		75.7 J	300	113 J
1308.7 CV	Nickel		2.0 J	100	6.4 J
NA	Potassium		6620	NA	3660 J
NA	Selenium		5.6	10	4.4 U
NA	Sodium		30000	20,000	3220 J
190	Vanadium		0.62 U	NA	4.4 J
328. 03 CV	Zinc		21.8 J	2,000 [3]	149 J
Total Cyanide by Method ILM04.0 (µg/L)					
22	Cyanide		0.99 J	200	1.4 J
Total Hardness by Method EPA 130.2 (mg/L)					
NA	Hardness (As CaCO3)		337	NA	NS

[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998. Class D Surface Water Standards and Guidance Values.

[2] New York State Department of Environmental Conservation, Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998. Class GA Groundwater Standards and Guidance Values.

[3] Guidance Value is listed for this parameter.

Key:

$CaCO_3$ = Calcium carbonate.
CV = Calculated value of standard based on sample hardness.
H(FC) = The human consumption of fish standard was available/used.
J = Estimated value.
mg/L = Milligrams per liter.
NA = Criteria not available
ND = The detection limit is the standard for this compound.

Key:

NS = Not sampled for this analysis.
PCB = Polychlorinated biphenyls.
SVOC = Semivolatile organic compound.
U = Not detected at the reported value.
VOC = Volatile organic compound.
µg/L = Micrograms per liter.

Table 3-3 Summary of Positive Analytical Results for Surface Soil Samples, 640 Trolley Boulevard

NYSDEC TAGM 4046 Soil Cleanup Objectives[1]	Analyte	Sample ID: (inches): Date:	640-DRY-Z1 0 - 2 11/08/01	640-MW01-Z1 0 - 2 11/05/01	640-MW02-Z1 10.8 - 14.4 11/06/01	640-MW03-Z1 0 - 2 11/07/01	640-MW05-Z1 4.8 - 9.6 11/08/01	640-SS01 0 - 2 11/05/01	640-SS02 0 - 2 11/05/01	640-SS03 24 - 26 11/05/01	640-SS03/D 24 - 26 11/05/01	640-SS04 21.6 - 26.4 11/08/01
Pesticide/PCB by Method OLM04.2 (µg/Kg)												
1000	Aroclor 1254			400 U	6.0 J	32 U	430 J	840	560 J			46 J
2900	4,4'-DDD		710 J	18 U	0.18 U	3.2 U	1.8 U	4.6 U	3.5 U	21 U	21 U	0.23 U
2100	4,4'-DDE		210 U	11 J	0.32 U	9.9 J	3.7 U	4.6 U	3.5 U	21 U	21 U	2.4 U
2100	4,4'-DDT		1900 J	46 J	3.6 U	8.0 J	3.7 U	4.6 U	3.5 U	510 J	430 J	3.4 U
41	Aldrin		110 U	210 U	0.14 U	11 J	1.9 U	2.4 U	14	11 U	11 U	1.2 U
540	alpha-Chlordane		110 U	480	0.13 U	4.1 J	1.9 U	1.6 U	1.8 U	11 U	11 U	0.030 U
200	beta-BHC		110 U	21 U	1.9 U	1.7 U	1.9 U	2.4 U	0.87 J	11 U	11 U	1.7 U
44	Dieldrin		210 U		3.6 U	3.2 U	3.7 U	4.6 U	3.5 U	21 U	21 U	2.0 U
900	Endosulfan II		210 U	40 U	0.11 U	4.1 J	0.21 U	0.80 U	3.5 U	5.7 U	4.4 U	0.048 U
1000	Endosulfan sulfate		210 U	4.7 J	1.1 U	32 U	4.9 J	12 J	11 J	390 J	290 J	3.4 U
100	Endrin			32 J	0.79 U	3.2 U	4.9 J	14	7.3 J			3.4 U
NA	Endrin aldehyde		210 U	18 J	1.4 J	5.0 U	37 J	98 J	66 J	21 U	21 U	3.4 U
NA	Endrin ketone		210 U	40 U	1.2 U	48	0.93 J	2.4 J	12	21 U	21 U	1.2 U
60	gamma-BHC		110 U	4.6 U	0.18 U	0.69 J	1.9 U	0.34 U	0.71 U	1.6 U	0.084 U	1.7 U
540	gamma-Chlordane			240	0.18 U	1.8 U	6.3 J	14 J	9.3 J	500 J	430 J	1.7 U
100	Heptachlor		81 U	4.3 U	1.9 U	1.7 U	0.40 J	0.92 J	1.1 U	2.6 J	12 J	0.27 U
20	Heptachlor epoxide				0.41 U		4.0 J	7.5	11			1.7 U
NA	Methoxychlor		1100 U	130 U	0.56 U	17 U	19 U	24 U	32 J	110 U	110 U	1.7 U
SVOCs by Method OLM04.2 (µg/Kg)												
50000	Acenaphthene		100 J	430 J	370 U	1600 J	410 U	450 U	340 U	430 U	200 J	360 U
41000	Acenaphthylene		59 J	1500 J	370 U	3400 U	410 U	450 U	340 U	430 U	400 U	360 U
NA	Acetophenone		470 U	2400 U	370 U	3400 U	410 U	450 U	51 J	430 U	42 J	360 U
50000	Anthracene		310 J	2700	370 U	3800	410 U	450 U	49 J	430 U	610 J	360 U
224	Benz(a)anthracene				370 U		410 U	450 U	180 J	160 J		360 U
NA	Benzaldehyde		67 J	2400 U	370 U	3400 U	410 U	450 U	340 U	430 U	400 U	360 U
61	Benzo(a)pyrene				370 U		410 U	450 U				360 U
1100	Benzo(b)fluoranthene				370 U		410 U	450 U	390	130 J		360 U
50000	Benzo(g,h,i)perylene		200 J	4200	370 U	7100	410 U	450 U	130 J	140 J	330 J	360 U
1100	Benzo(k)fluoranthene		470 U		370 U		410 U	450 U	400	150 J	1000 J	360 U
50000	Bis(2-ethylhexyl)phthalate		470 U	2400 U	360 J	3400 U	410 U	450 U	200 J	430 U	400 U	360 U
50000	Butyl benzyl phthalate		470 U	2400 U	370 U	3400 U	90 J	450 U	340 U	430 U	400 U	69 J
NA	Carbazole		270 J	2100 J	370 U	2000 J	410 U	450 U	340 U	430 U	420 J	360 U
400	Chrysene				370 U		410 U	450 U	290 J	200 J		360 U
14	Dibenz(a,h)anthracene				370 U		410 U	450 U	340 U	430 U	400 U	360 U
6200	Dibenzofuran		51 J	2400 U	370 U	610 J	410 U	450 U	340 U	430 U	120 J	360 U
50000	Fluoranthene		4800 J	33000 J	370 U	26000	410 U	450 U	460	370 J	4100 J	360 U
50000	Fluorene		130 J	500 J	370 U	1400 J	410 U	450 U	340 U	430 U	230 J	360 U
3200	Indeno(1,2,3-cd)pyrene		280 J		370 U	2600 J	410 U	450 U	140 J	150 J	460 J	360 U
1000	Pentachlorophenol		1200 U	6000 U	920 U	8600 U	1000 U	1100 U	39 J	1100 U	1000 U	910 U
50000	Phenanthrene		1400	9900	370 U	15000	410 U	450 U	170 J	190 J	2900 J	360 U
50000	Pyrene		990	14000	370 U	19000	410 U	450 U	440	270 J	1600 J	360 U

Table 3-3 Summary of Positive Analytical Results for Surface Soil Samples, 640 Trolley Boulevard

NYSDEC TAGM 4046 Soil Cleanup Objectives[1]	Analyte	Sample ID: (inches): Date:	640-DRY-Z1 0 - 2 11/08/01	640-MW01-Z1 0 - 2 11/05/01	640-MW02-Z1 10.8 - 14.4 11/06/01	640-MW03-Z1 0 - 2 11/07/01	640-MW05-Z1 4.8 - 9.6 11/08/01	640-SS01 0 - 2 11/05/01	640-SS02 0 - 2 11/05/01	640-SS03 24 - 26 11/05/01	640-SS03/D 24 - 26 11/05/01	640-SS04 21.6 - 26.4 11/08/01
VOCs by Method OLM04.2 (µg/Kg)												
200	Acetone		14 U	13 U	19	36 J	13 U	14 U	11 U	13 U	13 U	9 J
5500	Ethylbenzene		14 U	13 U	11 U	32 J	13 U	14 U	11 U	13 U	13 U	11 U
NA	Isopropylbenzene		14 U	13 U	11 U	130	13 U	14 U	11 U	13 U	13 U	11 U
NA	Methylcyclohexane		14 U	13 U	11 U	57 J	13 U	14 U	11 U	13 U	13 U	11 U
Metals by Method ILM04.0 (mg/Kg)												
NA	Aluminum		8390	3940	7670	4600	7830	7470	1150	7770	8330	3670
NA	Antimony		4.2 J	2.0 J	5.2 J	2.4 J	3.1 J	3.5 J	1.1 J	6.2 J	4.7 J	1.0 U
7.5	Arsenic		4.2	6.8	5.2	4.4	1.9 J	4.0	1.1 U		4.2	7.2
300	Barium		67.8	42.1 J	65.7	47.8	61.5	47.2 J	14.8 J	166 J	71.4 J	25.6 J
NA	Beryllium		0.58 U	0.37 J	0.63 J	0.35 J	0.63 U	0.58 J	0.079 U	0.75 J	0.59 J	0.23 U
1	Cadmium				0.30 J	0.24 J	0.56 J	0.28 J	0.55 J			0.34 J
NA	Calcium		22700	50100	21700	65600	5910	77000	145000	8970	9090	88000
10	Chromium					7.3	10.0	9.7	8.8			5.6
30	Cobalt		5.2 J	3.6 J	7.3 J	4.0 J	3.5 J	4.4 J	1.6 J	11.3 J	6.3 J	4.0 J
25	Copper		19.5		6.5	9.1	7.7	4.9 J	9.6	20.3 J		10.1
2000	Iron											
NA	Lead		54.2 J	179	22.6	19.2	31.0 J	17.7	25.5	59.7	108	11.2 J
NA	Magnesium		8260	29800	13100	27700	2880	43900	57800	3430	4210	26200
NA	Manganese		304 J	319	297	359	174 J	359	261	2570 J	505 J	336 J
0.1	Mercury				0.043 U	0.076 J	0.060 U	0.056 J	0.051 U			0.048 U
13	Nickel		7.7 J	9.1 J	9.7	6.0 J	5.9 J	7.8 J	3.8 J	12.3	8.9 J	7.5 J
NA	Potassium		730 J	335 J	357 J	469 J	514 J	505 J	397 J	425 J	556 J	703 J
2	Selenium		1.2 U				1.0 U		0.84 U			1.6 J
NA	Silver		1.5 J	2.8	0.23 J	0.90 J	0.18 U	1.4 J	2.1	1.2 J	0.80 J	0.50 U
NA	Sodium		190 J	256 U	169 U	118 U	184 J	197 U	157 U	76.6 U	93.8 U	140 J
NA	Thallium		1.8 U	3.6 J	0.96 U	0.97 U	1.6 U	1.8 J	1.5 J	1.4 U	1.2 U	1.5 U
150	Vanadium		15.8	13.1	19.7	9.4	13.6	12.5 J	5.1 J	17.1	16.2	6.6 J
20	Zinc							16.5 J				6.2 J
Total Cyanide by ILM04.0 (mg/Kg)												
NA	Cyanide		0.10 J	0.23 J	0.057 U	0.081 J	0.63 UJ	0.070 U	0.056 U	0.18 J	0.11 J	0.56 UJ

[1] New York State Department of Environmental Conservation. Technical and Administrative Guidance Memorandum #4046: Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.

Key:

J = Estimated value.
mg/Kg = Milligrams per kilogram.
NA = Criterion not available.
PCB = Polychlorinated biphenyls.
SVOC = Semivolatile organic compound.
U = Not detected at the reported value.
VOC = Volatile organic compound.
µg/Kg = Micrograms per kilogram.

Table 3-4 Summary of Positive Analytical Results for the Subsurface Soil Samples, 640 Trolley Boulevard

NYSDEC TAGM 4046 Soil Cleanup Objectives[1]	Analyte	Sample ID: 640-MW01-Z2 Depth (ft): 2 - 4 Date: 11/06/01	640-MW02-Z2 2.2 - 2.8 11/06/01	640-MW03-Z2 2.8 - 3.7 11/07/01	640-MW04-Z2 2 - 3.6 11/07/01	640-MW05-Z2 2.5 - 3.5 02/06/02
Pesticide/PCB by Method OLM04.2 (µg/Kg)						
10000	Aroclor 1254	33 U	36 U	38 U	1800 J	35 U
2900	4,4'-DDD	0.51 U	0.097 U	0.68 J	10 J	3.5 U
2100	4,4'-DDE	0.56 J	0.66 J	0.99 U	3.6 U	3.5 U
2100	4,4'-DDT	3.3 U	2.3 U	2.5 J	31 J	3.5 U
41	Aldrin	1.7 U	1.5 U	1.1 J	1.8 U	1.8 U
540	alpha-Chlordane	1.2 J	0.59 U	2.0 U	1.8 U	1.8 U
44	Dieldrin	9.9 J	3.6 U	1.4 U	3.6 U	3.5 U
900	Endosulfan II	0.35 U	0.29 U	0.51 J	3.6 U	3.5 U
1000	Endosulfan sulfate	1.3 U	0.99 U	2.0 J	3.6 U	3.5 U
100	Endrin	0.82 J	2.5 U	3.8 U	28 J	3.5 U
NA	Endrin ketone	0.35 U	1.2 U	3.3 U	0.92 J	3.5 U
540	gamma-Chlordane	0.96 J	0.20 U	1.2 U	47 J	3.5 U
20	Heptachlor epoxide	1.7 J	0.40 J	1.8 J	17 J	1.8 U
NA	Methoxychlor	0.47 U	0.26 U	2.7 U	18 U	18 U
SVOCs by Method OLM04.2 (µg/Kg)						
NA	1,1'-Biphenyl	330 U	360 U	870	360 U	360 U
36400	2-Methylnaphthalene	330 U	360 U	6100 J	360 U	360 U
50000	Acenaphthene	330 U	360 U	330 J	360 U	360 U
41000	Acenaphthylene	330 U	360 U	390 U	360 U	360 U
NA	Acetophenone	330 U	45 J	390 U	360 U	360 U
50000	Anthracene	330 U	360 U	340 J	360 U	360 U
224	Benz(a)anthracene	330 U	360 U	[redacted]	360 U	360 U
61	Benzo(a)pyrene	330 U	360 U	[redacted]	360 U	360 U
1100	Benzo(b)fluoranthene	330 U	360 U	460	360 U	360 U
50000	Benzo(g,h,i)perylene	330 U	360 U	820	360 U	360 U
1100	Benzo(k)fluoranthene	330 U	360 U	580	360 U	360 U
50000	Bis(2-ethylhexyl)phthalate	68 J	55 J	390 U	360 U	360 U
50000	Butyl benzyl phthalate	330 U	360 U	390 U	360 U	360 U
NA	Carbazole	330 U	360 U	200 J	360 U	360 U
400	Chrysene	330 U	360 U	[redacted]	360 U	360 U
14	Dibenz(a,h)anthracene	330 U	360 U	[redacted]	360 U	360 U
6200	Dibenzofuran	330 U	360 U	250 J	360 U	360 U
50000	Fluoranthene	38 J	360 U	1200	360 U	360 U
50000	Fluorene	330 U	360 U	270 J	360 U	360 U
3200	Indeno(1,2,3-cd)pyrene	330 U	360 U	810	360 U	360 U
13000	Naphthalene	330 U	360 U	1100	360 U	360 U
50000	Phenanthrene	330 U	360 U	1100	360 U	360 U
30	Phenol	330 U	360 U	390 U	[redacted]	360 U
50000	Pyrene	34 J	360 U	1200	360 U	360 U
VOCs by Method OLM04.2 (µg/Kg)						
800	1,1,1-Trichloroethane	11 U	11 U	12 U	1300 U	11 U

Table 3-4 Summary of Positive Analytical Results for the Subsurface Soil Samples, 640 Trolley Boulevard

NYSDEC TAGM 4046 Soil Cleanup Objectives[1]	Analyte	Sample ID:	640-MW01-Z2	640-MW02-Z2	640-MW03-Z2	640-MW04-Z2	640-MW05-Z2
		Depth (ft):	2 - 4	2.2 - 2.8	2.8 - 3.7	2 - 3.6	2.5 - 3.5
		Date:	11/06/01	11/06/01	11/07/01	11/07/01	02/06/02
200	1,1-Dichloroethane		11 U	11 U	12 U	1300 U	11 U
400	1,1-Dichloroethene		11 U	11 U	12 U	1300 U	11 U
8500	1,4-Dichlorobenzene		11 U	11 U	12 U	1300 U	11 U
200	Acetone		11 U	11 U	12 U		11 U
5500	Ethylbenzene		11 U	11 U	12 U	1300 U	11 U
NA	Methylcyclohexane		11 U	1 J	12 U	1300 U	11 U
1500	Toluene		11 U	11 U	12 U	1300 U	11 U
1200	Xylenes, Total		11 U	11 U	12 U	1300 U	11 U
Metals by Method ILM04.0 (mg/Kg)							
NA	Aluminum		5320	2030	4310	1560	1880
NA	Antimony		3.4 J	13.7 J	3.0 J	1.1 J	0.90 J
7.5	Arsenic		6.9	3.2	7.3	4.3	6.6
300	Barium		31.4 J	16.8 J	33.3 J	12.6 J	14.7 J
NA	Beryllium		0.41 J	0.18 J	0.31 J	0.11 U	0.14 U
1	Cadmium		0.22 J	0.27 J	0.13 J	0.038 U	0.30 J
NA	Calcium		111000	146000	58100	86300	45200
10	Chromium		8.5	5.5	7.3	6.7	3.7
30	Cobalt		3.2 J	4.3 J	5.6 J	1.9 J	2.5 J
25	Copper		8.8	4.3 J	7.5	3.0 J	8.2
2000	Iron						
NA	Lead		23.9	16.2	9.3	4.4	12.2 J
NA	Magnesium		67100	70300	23300	42300	38500
NA	Manganese		209	344	585	288	244 J
0.1	Mercury		0.052 U	0.044 U	0.043 U	0.045 U	0.052 U
13	Nickel		7.0 J	4.8 J	9.2 J	3.2 J	3.9 J
NA	Potassium		491 J	618 J	374 J	406 J	453 J
2	Selenium			0.88 U	1.5	1.6	1.1 J
NA	Silver		1.0 J	4.1 J	1.1 J	1.2 J	0.46 U
NA	Sodium		402 U	215 U	113 U	269 U	142 J
NA	Thallium		1.6 J	1.0 U	1.2 U	1.0 U	1.4 U
150	Vanadium		8.4 J	5.7 J	10.5 J	4.7 J	4.2 U
20	Zinc		5.4 U	16.6 J	15.4 J	0.093 U	0.070 U
Total Cyanide by ILM04.0 (mg/Kg)							
NA	Cyanide		0.0058 J	0.056 U	0.059 U	0.079 J	0.0049 J

Table 3-4 Summary of Positive Analytical Results for the Subsurface Soil Samples, 640 Trolley Boulevard

NYSDEC TAGM 4046 Soil Cleanup Objectives[1]	Analyte	Sample ID: / Depth (ft): / Date:	640-DRY-Z2 2 - 2.75 11/16/01	640-DRY-Z3 2.75 - 3.25 11/16/01	640-DRY-Z4 3.25 - 3.75 11/16/01	EAST WALL 0 - 3.5 11/19/01	NORTH WALL 0 - 3.5 11/19/01	SOUTH WALL 0 - 3.5 11/19/01	WEST WALL 0 - 3.5 11/19/01
Pesticide/PCB by Method OLM04.2 (µg/Kg)									
10000	Aroclor 1254								
2900	4,4'-DDD		500 U	360 U	3700 U	86 J	41 U	34 U	180 U
2100	4,4'-DDE		1900 J	360 U	370 U	19 U	41 U	190 J	2000 J
2100	4,4'-DDT					400 J	1300 J	1300 J	
41	Aldrin			180 U	190 U	9.6 U	21 U	10 J	35 J
540	alpha-Chlordane		260 U	180 U	190 U	9.6 U	21 U	17 U	90 U
44	Dieldrin		500 U	360 U	370 U	19 U	41 U	34 U	180 U
900	Endosulfan II		500 U	360 U	370 U	2.0 U	8.6 U	34 U	49 U
1000	Endosulfan sulfate		500 U	360 U	370 U	19 U	41 U	34 U	180 U
100	Endrin								
NA	Endrin ketone		180 J	360 U	230 J	19 U	23 J	16 J	99 J
540	gamma-Chlordane				190 U	430 J			
20	Heptachlor epoxide								
NA	Methoxychlor		520 J	1800 U	770 J	96 U	110 J	54 J	440 J
SVOCs by Method OLM04.2 (µg/Kg)									
NA	1,1'-Biphenyl		2900 J	11000 U	11000 U	360 U	2000 U	330 U	680 U
36400	2-Methylnaphthalene		6900	11000 U	11000 U	360 U	2000 U	330 U	680 U
50000	Acenaphthene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	680 U
41000	Acenaphthylene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	100 J
NA	Acetophenone		5200 U	11000 U	11000 U	88 J	2000 U	74 J	95 J
50000	Anthracene		5200 U	11000 U	11000 U	50 J	2000 U	330 U	770
224	Benz(a)anthracene			11000 U	11000 U	95 J	2000 U	330 U	160 J
61	Benzo(a)pyrene			11000 U	11000 U		2000 U	330 U	
1100	Benzo(b)fluoranthene			11000 U	11000 U	150 J	2000 U	330 U	280 J
50000	Benzo(g,h,i)perylene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	120 J
1100	Benzo(k)fluoranthene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	260 J
50000	Bis(2-ethylhexyl)phthalate		5200 U	11000 U	11000 U	360 U	2000 U	330 U	120 J
50000	Butyl benzyl phthalate		5200 U	11000 U	11000 U	360 U	2000 U	330 U	89 J
NA	Carbazole		5200 U	11000 U	11000 U	38 J	2000 U	330 U	680 U
400	Chrysene			11000 U	11000 U	280 J	2000 U	330 U	230 J
14	Dibenz(a,h)anthracene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	680 U
6200	Dibenzofuran		5200 U	11000 U	11000 U	360 U	2000 U	330 U	680 U
50000	Fluoranthene		4100 J	11000 U	11000 U	420	290 J	330 U	540 J
50000	Fluorene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	680 U
3200	Indeno(1,2,3-cd)pyrene		5200 U	11000 U	11000 U	360 U	2000 U	330 U	130 J
13000	Naphthalene		4800 J	11000 U	11000 U	360 U	2000 U	330 U	680 U
50000	Phenanthrene		5200 U	11000 U	11000 U	390	2000 U	330 U	250 J
30	Phenol			11000 U	11000 U		2000 U	330 U	680 U
50000	Pyrene		1100 J	11000 U	11000 U	120 J	230 J	330 U	200 J
VOCs by Method OLM04.2 (µg/Kg)									
800	1,1,1-Trichloroethane					1400 U	1500 U	74	

Table 3-4 Summary of Positive Analytical Results for the Subsurface Soil Samples, 640 Trolley Boulevard

NYSDEC TAGM 4046 Soil Cleanup Objectives[1]	Analyte	Sample ID: / Depth (ft): / Date:	640-DRY-Z2 2 - 2.75 11/16/01	640-DRY-Z3 2.75 - 3.25 11/16/01	640-DRY-Z4 3.25 - 3.75 11/16/01	EAST WALL 0 - 3.5 11/19/01	NORTH WALL 0 - 3.5 11/19/01	SOUTH WALL 0 - 3.5 11/19/01	WEST WALL 0 - 3.5 11/19/01
200	1,1-Dichloroethane					1400 U	1500 U	11 U	150 J
400	1,1-Dichloroethene		9700 U	1300 U		1400 U	1500 U	11 U	1300 U
8500	1,4-Dichlorobenzene		9700 U	210 J	6900 U	1400 U	1500 U	11 U	1300 U
200	Acetone			1300 U				11 U	
5500	Ethylbenzene		1600 J	1300 U	6900 U	1400 U	1500 U	2 J	1300 U
NA	Methylcyclohexane		6600 J	1300 U	6900 U	1400 U	1500 U	5 J	1300 U
1500	Toluene			1300 U	6900 U	1400 U	1500 U	11 U	1300 U
1200	Xylenes, Total			170 J	6900 U	1400 U	1500 U	18	1300 U
Metals by Method ILM04.0 (mg/Kg)									
NA	Aluminum		4420	2220	2110	15100	12200	5460	8220
NA	Antimony		3.1 J	1.1 J	0.80 U	0.81 U	0.83 U	0.73 U	0.77 U
7.5	Arsenic				6.9	6.3		6.0	7.2
300	Barium		41.8 J	20.7 J	16.8 J	84.7	78.4	35.5 J	58.7
NA	Beryllium		0.33 J	0.15 J	0.12 J	0.75 J	0.59 J	0.33 U	0.54 J
1	Cadmium		0.91 J	0.35 J	0.25 J	0.46 J	0.73 J	0.42 J	0.51 J
NA	Calcium		69600	89300	74600	26000	16800	92200	51000
10	Chromium		9.9	4.2	4.1			7.5	
30	Cobalt		3.9 J	2.7 J	2.1 J	7.1 J	5.8 J	3.3 J	5.4 J
25	Copper		13.7	8.2	7.5	10.2	9.9	8.0	7.9
2000	Iron								
NA	Lead		35.4	24.7	9.7	22.9	455	11.6	20.0
NA	Magnesium		31700	39600	26000	15800	9040	35100	27600
NA	Manganese		357	292	254	286	621	277	320
0.1	Mercury		0.068 U	0.053 U	0.058 U	0.059 U		0.050 U	0.046 U
13	Nickel		6.5 J	4.0 J	3.8 J	12.9	7.7 J	6.1 J	9.1
NA	Potassium		762 J	531 J	468 J	1940	1020 J	1190	1640
2	Selenium		1.3 U		1.0 U	1.8 J	1.7 J	1.4 J	1.2 J
NA	Silver		3.2 J	0.49 U	0.61 U	0.44 U	1.5 J	1.2 U	0.57 U
NA	Sodium		1130 J	1270	2430	913 J	257 J	216 J	1200
NA	Thallium		1.5 U	1.2 U	1.2 U	2.8	3.2	1.1 U	1.8 J
150	Vanadium		9.5 J	4.2 J	3.7 J	21.5	18.8	8.4 J	14.8
20	Zinc			8.0 J	15.9 J			17.1 J	
Total Cyanide by ILM04.0 (mg/Kg)									
NA	Cyanide		0.89	0.92	2.0	0.19 J	0.24 J	0.091 J	0.41 J

Table 3-5 Summary of Positive Analytical Results for Groundwater Samples, 640 Trolley Boulevard

NYSDEC Water Criteria	Analyte / Sample ID: / Date:	640-MW01 11/20/01	640-MW02 11/20/01	640-MW02/D 11/20/01	640-MW03 11/20/01	640-MW04 11/20/01	640-MW05 11/20/01
Pesticide/PCB by Method OLM04.2 (µg/L)							
NA	No Pesticides or PCBs were detected in the groundwater samples						
Semivolatile Organics by Method OLM04.2 (µg/L)							
5	Bis(2-ethylhexyl)phthalate	2 J	100 U		10 U	1 J	3 J
NA	Caprolactam	10 U	39 J	63	10 U	10 U	10 U
1	Phenol	10 U	100 U	10 U	10 U		10 U
VOCs by Method OLM04.2 (µg/L)							
5	1,1,1-Trichloroethane	10 U	10 U	10 U	10 U		
5	1,1-Dichloroethane	10 U	2 J	2 J	5 J		
50 [2]	2-Butanone	10 U	10 U	10 U	10 U	9 J	10 U
50 [2]	Acetone	10 U	10 U	10 U	10 U		10 U
5	Chloroethane	10 U	10 U	10 U	10 U		10 U
10	Methyl tert-butyl ether	10 U	5 J	5 J	8 J	3 J	9 J
Metals by Method ILM04.0 (µg/L)							
NA	Aluminum	683	46.1 J	201 J	548	514	1410
25	Arsenic	1.8 J	10 U	1.6 J	2.5 J	2.1 J	3.3 J
1000	Barium	15.9 J	39.9 J	41.8 J	20.1 J	16.7 J	25.2 J
5	Cadmium	5 U	5 U	5 U	0.71 J	5 U	0.50 J
NA	Calcium	99200	107000	115000	150000	117000	171000
50	Chromium	6.1 J	3.2 J	4.4 J	4.2 J	4.8 J	5.3 J
200	Copper	32.4	2.1 J	3.4 J	68.1	4.1 J	4.3 J
300	Iron						
25	Lead	2.2 J	3 U	3 U	2.8 J	3 U	1.9 J
35,000 [2]	Magnesium						
300	Manganese	59.7			88.9	84.8	171
100	Nickel	4.1 J	11.1 J	11.7 J	4.7 J	14.6 J	4.5 J
NA	Potassium	5010 J	2350 J	2640 J	7900 J	4680 J	5560 J
10	Selenium	5 U	5 U	5 U	2.6 J	5 U	5 U
50	Silver	10 U	10 U	10 U	10 U	0.34 J	0.33 J
20000	Sodium						
NA	Vanadium	1.6 U	0.66 U	0.63 U	1.5 U	1.7 U	2.7 J
2,000 [2]	Zinc	20.3	7.2 U	9.1 U	32.2	12.6 U	14.3 U
Total Cyanide by Method ILM04.0 (µg/L)							
200	Cyanide	1.0 U	1.0 U	1.1 J	1.0 U	1.1 J	1.0 U

[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998.

[2] Guidance Value is listed for this parameter.

Key:

J = Estimated value.
mg/L = Milligrams per liter.
NA = Criterion not available.
NS = Not sampled for this analysis.
PCB = Polychlorinated biphenyls.
U = Not detected at the reported value.
VOC = Volatile organic compound.
µg/L = Micrograms per liter.

Table 3-1 Summary of Positive Analytical Results for the Sediment Samples, 640 Trolley Boulevard

NYSDEC Sediment Screening Criteria [1]	Analyte	Sample ID:	640-SD01	640-SD02	640-SD03	640-SD04	640-SD04/D	640-SD06
		Depth (in):	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
		Date:	11/06/01	11/07/01	11/07/01	11/07/01	11/07/01	11/16/01
Pesticide/PCB by Method OLM04.2 (µg/Kg)								
0.047136	Aroclor 1254			42 U	42 U	440 U	880 U	
0.5892	4,4'-DDE		4.9 U			34 U	37 U	4.4 U
0.5892	4,4'-DDT							
5.892	Aldrin		3.5 J	11 U	11 U	110 U	450 U	2.3 U
NA	alpha-Chlordane		0.68 J	2.2 J	3.0 J	41 J	60 J	2.3 U
NA	delta-BHC		1.2 U	1.2 J	2.2 U	26 J	61 J	2.3 U
5.892	Dieldrin		4.9 U	0.90 J	1.3 J			4.4 U
1.7676	Endosulfan II		1.8 U	2.0 U	2.0 U	44 U		4.4 U
NA	Endosulfan sulfate		4.9 U	3.5 J	4.0 J	71 J	110 J	4.4 U
47.136	Endrin		5.3 J	1.8 U	1.2 U	36 U	23 U	28 J
NA	Endrin aldehyde		4.9 U	4.2 U	4.2 U	16 J	30 U	4.4 U
NA	Endrin ketone		5.2	1.5 J	2.0 J	44 U	88 U	3.8 J
3.5352	gamma-BHC		0.88 U	0.70 U	0.75 U	15 U		2.3 U
0.05892	gamma-Chlordane			2.2 U	2.2 U			
0.047136	Heptachlor epoxide							
35.352	Methoxychlor		25 U	10 U	11 U	220 U	350 U	10 J
SVOCs by Method OLM04.2 (µg/Kg)								
8248.8	Acenaphthene		480 U	450 U	470 U	2000 J	2400 J	13000 U
NA	Acenaphthylene		65 J	450 U	470 U	13000 U	1700 J	13000 U
NA	Acetophenone		53 J	450 U	470 U	13000 U	4400 U	13000 U
6304.44	Anthracene		100 J	80 J	50 J			13000 U
707.04	Benz(a)anthracene		330 J	220 J	220 J			13000 U
76.596	Benzo(a)pyrene							13000 U
76.596	Benzo(b)fluoranthene							13000 U
NA	Benzo(g,h,i)perylene							13000 U
76.596	Benzo(k)fluoranthene							13000 U
NA	Butyl benzyl phthalate		480 U	450 U	73 J	13000 U	4400 U	13000 U
NA	Carbazole		100 J	72 J	61 J	4100 J	5300	13000 U
76.596	Chrysene							13000 U
NA	Dibenz(a,h)anthracene		480 U	70 J	220 J	11000 J	5100	13000 U
NA	Dibenzofuran		480 U	450 U	470 U	13000 U	1200 J	13000 U
60098.4	Fluoranthene		990	650	510	58000		2300 J
471.36	Fluorene		480 U	450 U	470 U			13000 U
76.596	Indeno(1,2,3-cd)pyrene							13000 U
7070.4	Phenanthrene		260 J	170 J	190 J			2300 J
56622.12	Pyrene		450 J	260 J	520	42000	34000	1800 J

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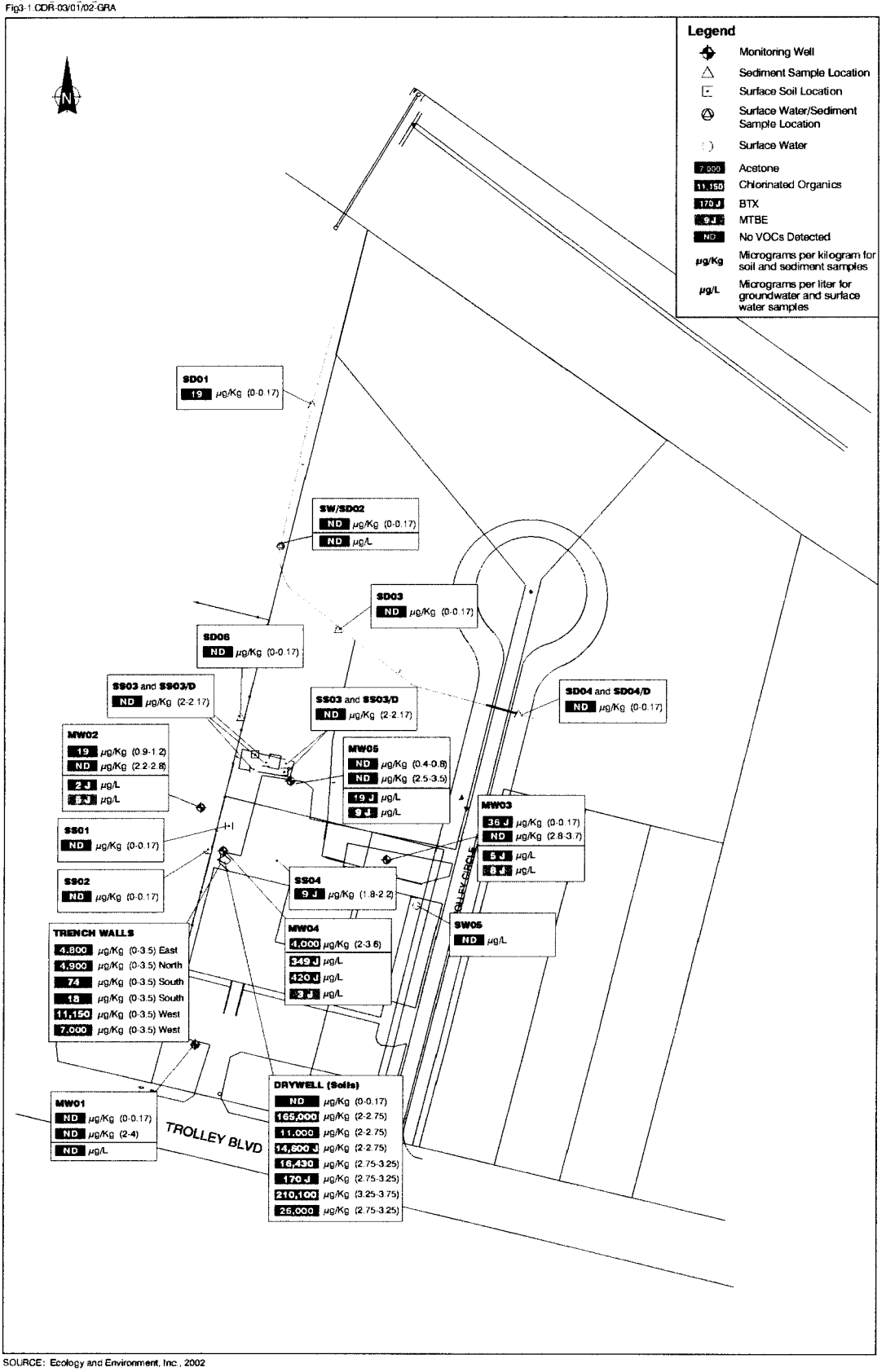
Fig3-1.CDR-03/01/02-GRA



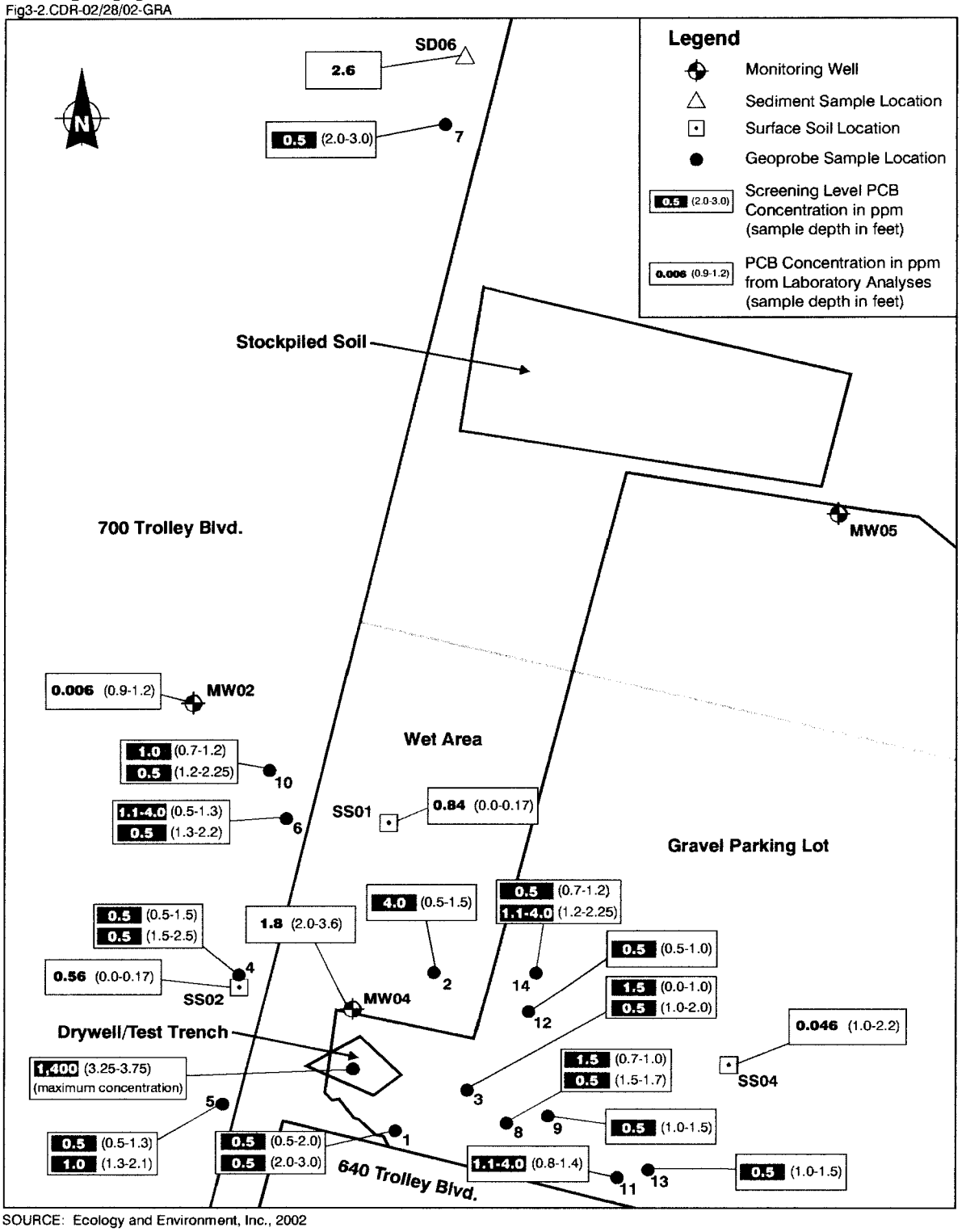
SOURCE: Ecology and Environment, Inc., 2002

APPROXIMATE SCALE

0 20 40 80 120 160 200 240 Feet

Figure 3-1 VOC CONCENTRATIONS DETECTED AT THE 640 TROLLEY BLVD. SITE

02:000699_NY08_03_02
Fig3-2.CDR-02/28/02-GRA



SOURCE: Ecology and Environment, Inc., 2002

APPROXIMATE SCALE

0 5 10 20 Feet

Figure 3-2 PCB FIELD TESTING AND LABORATORY RESULTS FROM SOIL SAMPLES

MW03-Z2 and MW04-Z2 samples that contained overall lower amounts of PAHs than the surface samples.

Several metals were found above screening levels in the sediment and soil samples including antimony, arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, selenium, silver, and zinc. Only selenium and iron were found above screening levels in the subsurface soil samples collected from the boreholes. However, the samples collected from the drywell and test trench also contained arsenic, chromium, mercury, and zinc above screening levels. Only iron, magnesium, manganese, and sodium were found above screening levels in the groundwater samples. These metals are found ubiquitously in geologic formations.

Due to the degree of contamination identified and the potential risks to human health and the environment, several concerns remain at the site due to the following conditions:

- Although a significant amount (19.5 tons) of contaminated soil was removed during the drywell excavation, the remaining soil in the excavated drywell trench and nearby area is still very heavily contaminated with PCBs and VOCs;

- Because of the renovations that took place on the north side of the 640 Trolley building (i.e., grading and installation of a gravel parking lot) and the limited soil sampling, the extent of the PCB-contaminated soil is unknown;

- Because there are no wells downgradient of the drywell, the extent of groundwater contamination is unknown; and

- Due to dry or frozen conditions, and the discovery of the 700 Trolley ditch between 640 and 700 Trolley during the site investigation, the water and sediment in the ditches surrounding the site and the NYSBC have not be fully characterized.

Although the extent of contamination was not identified in this PSA, the main purpose, such as nature of contamination and media affected, has been identified.

Photographic Log, 640 Trolley Boulevard Site
Camera: Olympus D-600L Zoom and Kodak DC-240 Digital Cameras
Photographers: V. Cervi (E & E), J. Mackecknie and G. Andrus (Lu Engineers), J. White (NYSDEC)

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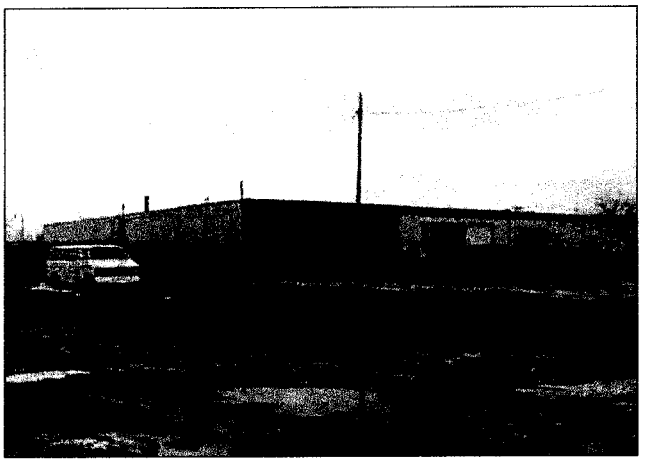
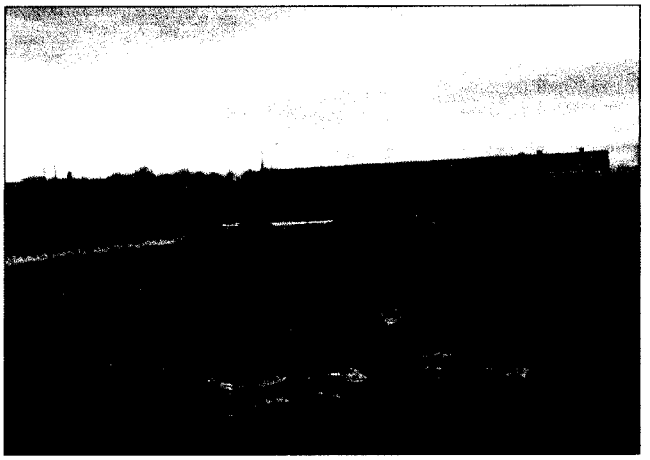


01 Southwest corner of the 640 Trolley Boulevard property
March 2001

02 Southeast corner of the 640 Trolley Boulevard property
March 2001

03 Northeast corner of the 630 Trolley Boulevard property and rear of 640 Trolley Boulevard property
March 2001

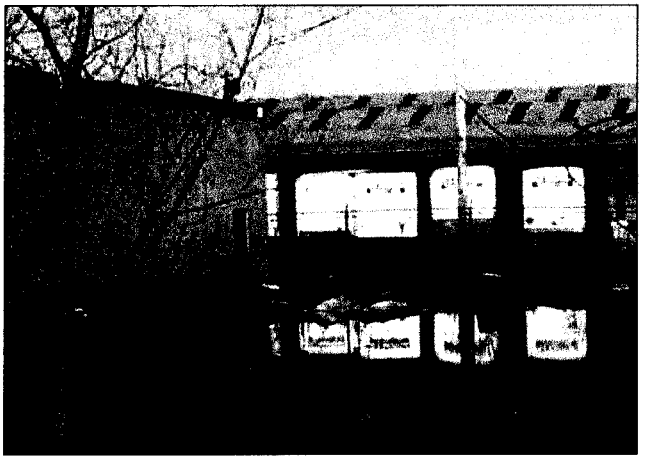


04 North of the 640 Trolley Boulevard building, area cleared fro parking lot expansion and stockpiled soil
March 2001

05 Rear of the 640 Trolley Boulevard building
04-05-01

06 North portion of the 640 Trolley Boulevard property flooded and view of the east portion of the 700 Trolley Boulevard property
04-05-01

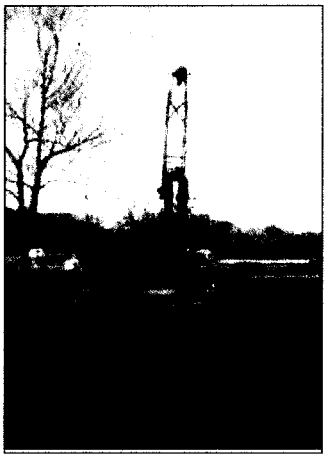
Photographic Log, 640 Trolley Boulevard Site
Camera: Olympus D-600L Zoom and Kodak DC-240 Digital Cameras
Photographers: V. Cervi (E & E), J. Mackecknie and G. Andrus (Lu Engineers), J. White (NYSDEC)



07 Close up of the northwest corner of the 640 Trolley Boulevard building and the door by the drywell
04-05-01

08 Stockpile of soil moved during parking lot expansion at the rear of the 640 Trolley Boulevard building
11-05-01

09 New drain at the rear of the 640 Trolley Boulevard building
11-16-01



10 Drilling overburden portion of monitoring well 640-MW01
11-06-01

11 Location of monitoring well 640-MW01 in the front of 640 Trolley Boulevard building
11-19-01

12 Rock coring monitoring well 640-MW02
11-13-01

Photographic Log, 640 Trolley Boulevard Site
Camera: Olympus D-600L Zoom and Kodak DC-240 Digital Cameras
Photographers: V. Cervi (E & E), J. Mackecknie and G. Andrus (Lu Engineers), J. White (NYSDEC)

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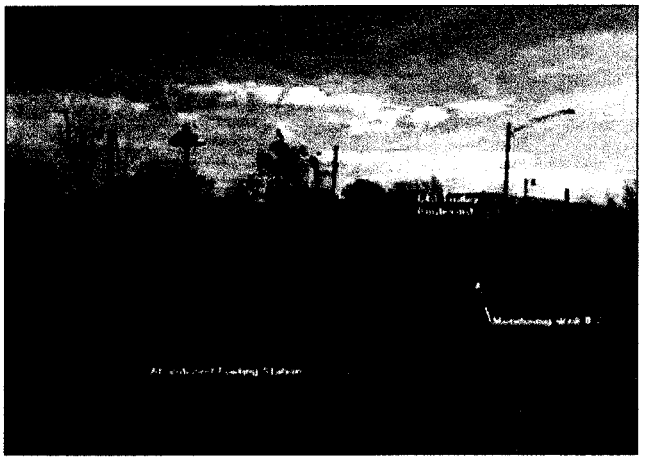
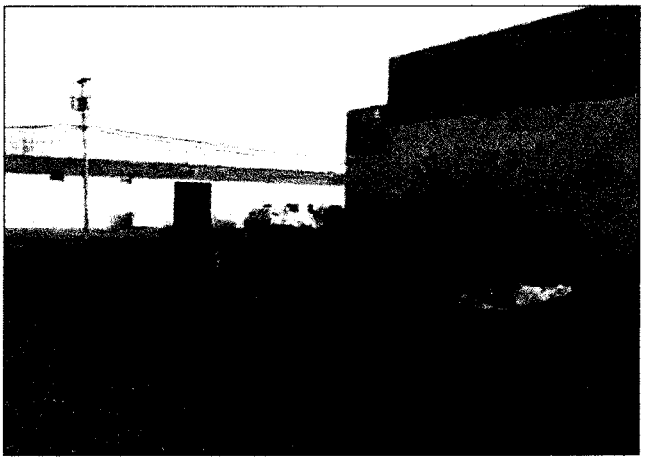
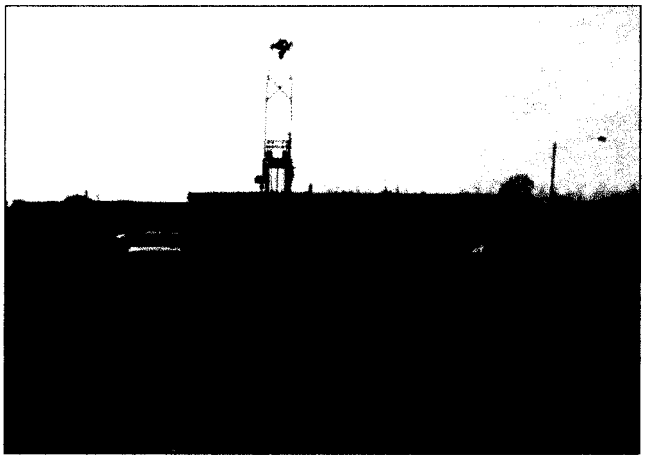


13 Location of monitoring well 640-MW02 on the 700 Trolley Boulevard property
11-16-01

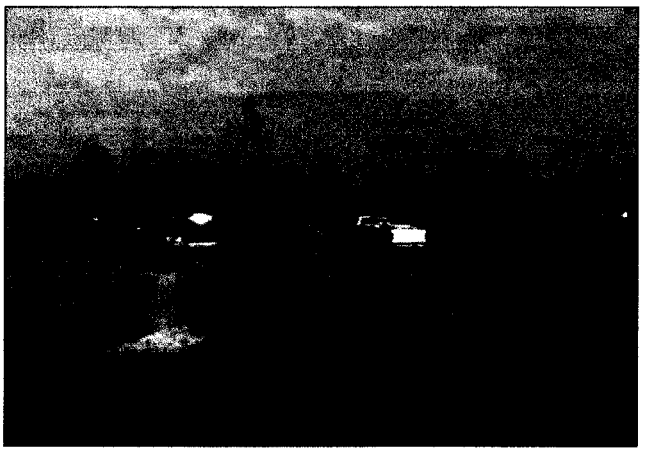


14 Location of monitoring well 640-MW03 north of the 630 Trolley Boulevard building
11-16-01

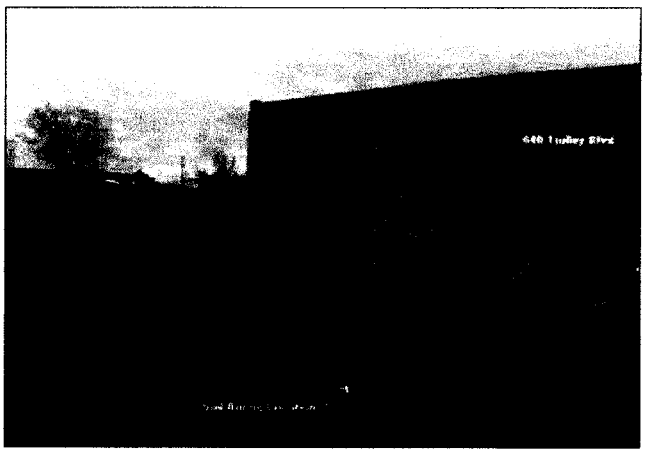
15 Drilling monitoring well 640-MW04 next to the drywell
11-09-01



16 Drilling monitoring well 640-MW05 next to the stockpile
11-08-01



17 Drilling monitoring well 640-MW05 (looking North)
11-08-01



18 Location of soil sample 640-SS04
11-08-01

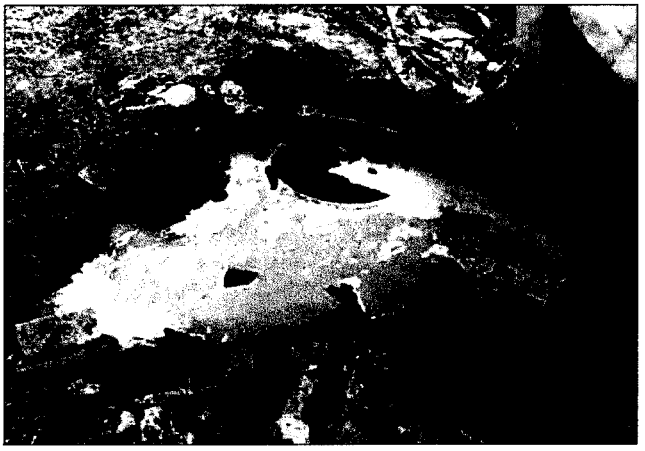
Photographic Log, 640 Trolley Boulevard Site
Camera: Olympus D-600L Zoom and Kodak DC-240 Digital Cameras
Photographers: V. Cervi (E & E), J. Mackecknie and G. Andrus (Lu Engineers), J. White (NYSDEC)

19 Drill Rig decontamination
11-07-01

20 Removing the top material from the drywell during the test trench excavation
11-16-01

21 Close up of the plastic and top 0.5 feet of drywell excavation
11-16-01

22 Drywell excavation and black sludge
11-16-01



23 Close-up of sludge found in the drywell at the beginning of the excavation
11-16-01

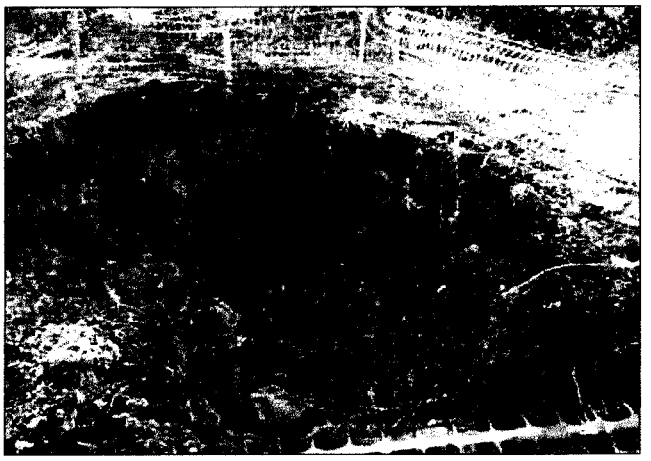
24 Placing the excavated material on heavy duty polyethylene sheeting
11-16-01

Photographic Log, 640 Trolley Boulevard Site
Camera: Olympus D-600L Zoom and Kodak DC-240 Digital Cameras
Photographers: V. Cervi (E & E), J. Mackecknie and G. Andrus (Lu Engineers), J. White (NYSDEC)

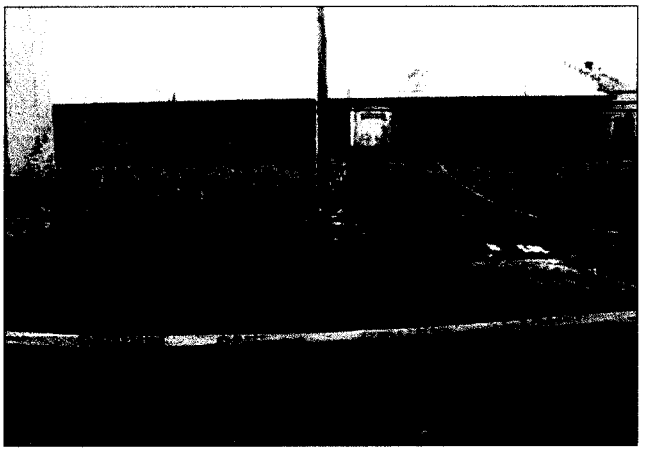
25 Close up of excavated material
11-16-01

26 Sludge gone in deeper layer
11-16-01

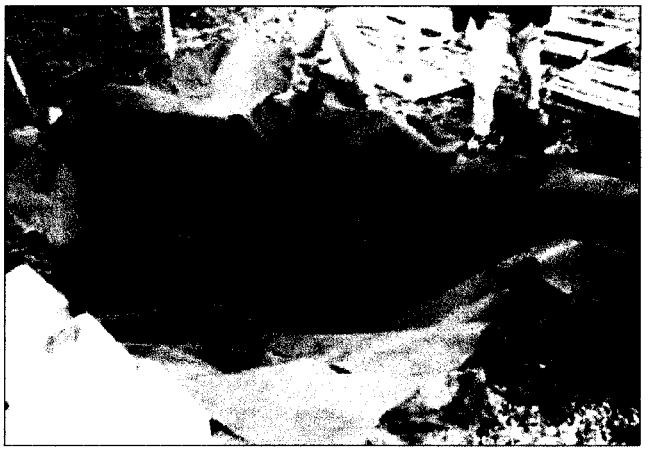
27 Excavation of test trench
11-16-01



28 Nearly completed test trench
11-16-01



29 Location of test trench next to the northwest corner of the 640 Trolley Boulevard building
11-16-01



30 Lining of test trench
11-19-01

Photographic Log, 640 Trolley Boulevard Site
Camera: Olympus D-600L Zoom and Kodak DC-240 Digital Cameras
Photographers: V. Cervi (E & E), J. Mackecknie and G. Andrus (Lu Engineers), J. White (NYSDEC)

02:000699_NY08_03_02-B0898
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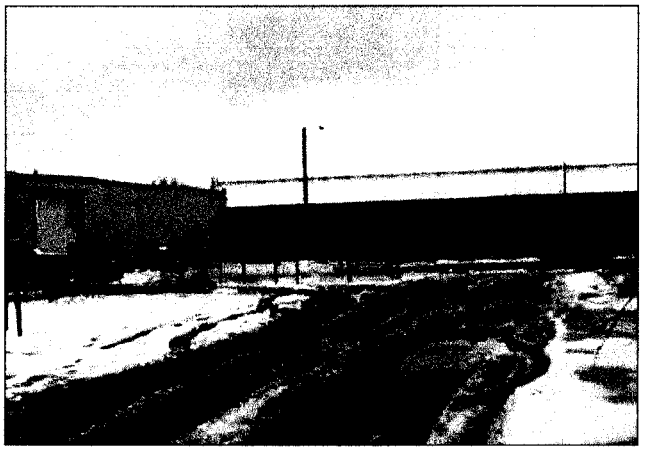
31 Test trench filled with gravel
11-19-01

32 Roll off drop-off and set up for containerizing the IDW
02-01-02

33 Filling up of roll off with IDW
02-01-02

34 IDW in plastic and equipment used to move it into the roll off
02-01-02



35 Roll off ready for removal
02-01-02

From: Dale Desnoyers
To: D'Amato, Paul; Evans, Robert; Finster, Bruce; Putzig, Bart; Ryan, Joseph; Schick, Robert
Date: 5/22/02 3:25PM
Subject: Re: Proposed Reclass (2A to 2): 640 Trolley Boulevard ID # 828108

I don't have anything on this site.

>>> Robert Evans 05/22/02 03:01PM >>>
640 Trolley Boulevard, located on the north side of Trolley Boulevard in the Town of Gates, Monroe County is proposed to be reclassified in the Registry of IHWDS to a Class 2. As you know, the Brownfields/Voluntary Cleanup Section must sign off on all listing packages indicating whether there are any voluntary cleanup agreements, Brownfields agreements, or any VC or BF negotiations under way.

We have no information in our files on this site. Please notify me within 3 days if you are aware of any information indicating the site associated with any of the above-referenced programs. Thanks - Bob

T. Sylvester

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control, 11th Floor
625 Broadway, Albany, New York 12233-7014
Phone: (518) 402-9551 • **FAX:** (518) 402-9020
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

JUL - 9 2002

Town Clerk
Town of Gates
1605 Buffalo Road
Rochester, NY 14624

Dear Sir/Madam:

The New York State Department of Environmental Conservation (Department) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at 640 Trolley Boulevard in the Town of Gates and County of Monroe and designated as Tax Map Number 104.11-1-2.2 was recently reclassified as a Class 2 in the Registry. The name and site I.D. number of this property as listed in the Registry is 640 Trolley Boulevard, Site #828108.

The Classification Code 2 indicates that a significant threat to the public health or environment exists – action required.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks. We are notifying you about these activities at this site because we believe it is important to keep you informed.

If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.

The reason for this recent classification decision is as follows:

- There are consequential amounts of hazardous waste at this site. Polychlorinated Biphenyls (PCB) and trichloroethane (1,1,1-TCA) were disposed of in the drywell located immediately north of the rear door. Contamination remains in soil in addition to the 19.5 ton Interim Remedial Measure (IRM) of removal of the drywell contents. PCBs are also in the soils and swale sediment throughout the rear yard of the building. Migration of contamination downgradient of the drywell was not confirmed due to the lack of wells downgradient. Local groundwater flow is southeast from the drywell toward the building.

If you have questions, need additional information, or have information which you believe would be useful to us, please call the Department of Environmental Conservation's toll-free number: **1(800)342-9296**. The Department of Health maintains a Health Liaison Program (HeLP) toll-free number: **1(800)458-1158 Ext. 2-7530.**

Sincerely,

Dennis J. Farrar
Chief
Site Control Section

bcc: M. O'Toole
D. Weigel
D. Farrar
J. Swartwout
T. Caffoe, R/8
P. Lent, R/8
L. Vera, R/8
A. Sylvester
G. Litwin
L. Ennist

AS/srh

A. Sylvester

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control, 11th Floor
625 Broadway, Albany, New York 12233-7014
Phone: (518) 402-9551 • **FAX:** (518) 402-9020
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

JUN 17 2002

Emerson Enterprises, LLC
P.O. Box 425
Pittsford, NY 14534

Dear Sir/Madam:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), the New York State Department of Environmental Conservation (Department) must maintain a Registry of all inactive disposal sites suspected or known to contain hazardous waste. The ECL also mandates that this Department notify the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites as to changes in site classification.

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of change in the classification of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

DEC Site No.: 828108
Site Name: 640 Trolley Boulevard
Site Address: 640 Trolley Boulevard, Rochester, NY 14606

Classification change from 2a to 2

The reason for the change is as follows:

- There are consequential amounts of hazardous waste at this site. Polychlorinated Biphenyls (PCB) and trichloroethane (1,1,1-TCA) were disposed of in the drywell located immediately north of the rear door. Contamination remains in soil in addition to the 19.5 ton Interim Remedial Measure (IRM) of removal of the drywell contents. PCBs are also in the soils and swale sediment throughout the rear yard of the building. Migration of contamination downgradient of the drywell was not confirmed due to the lack of wells downgradient. Local groundwater flow is southeast from the drywell toward the building.

Enclosed is a copy of the New York State Department of Environmental Conservation, Division of Environmental Remediation, Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry and Annual Report, and an explanation of the site classifications. The Law allows the owner and/or operator of a site listed in the Registry to petition the

Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition. Such petition may be addressed to:

Erin M. Crotty
Commissioner
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-1010

For additional information, please contact me at (518) 402-9553.

Sincerely,

Dennis J. Farrar
Chief
Site Control Section

Enclosures

bcc: M. O'Toole
D. Weigel
R. Marino
D. Farrar
J. Swartwout
A. Sylvester

w/Enc. (Copy of Site Report form only)
A. Grant
G. Litwin, DOH
C. Vasudevan
P. D'Amato, R/8
P. Lent, R/8
B. Putzig, R/8
E. Belmore

AS/srh