

Prepared For:

**FLOWER CITY DEVELOPMENT LLC
277 Alexander Street
Rochester, NY 14607**

Petroleum Bulk Storage- Tank Closure Report

**420 South Avenue
Rochester, NY 14620**

NYETECH Project Number: R6887

Prepared By:



P.O. Box 24398 Rochester, NY 14624
585-436-5660

Completed: May 5, 2010

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1.0 SITE BACKGROUND

The subject property at 420 South Avenue, Rochester, NY is a vacant commercial property owned by the City of Rochester (“the City”). A purchase agreement for the site is pending with Flower City Development LLC (“Flower City”) for planned retail and residential development. The site had been most recently utilized as a residential property with a three-story brick apartment building, which had been vacant for an unknown time. This building was demolished in March 2010. Based on historical records provided by the City (Figure II- Sanborn map and Figure III- tank registration), prior use of the property included a gasoline filling station dating 1939-1953 in which three (3) underground gasoline storage tanks (UST’s) and a fuel dispensing island with four pumps existed at the site. The tanks were all reported to have been filled with sand in 1953. In 2004, a subsurface investigation (Geo-probe) and magnetometer survey were performed by Construction Lending Services (CLS) to investigate the potential for underground tanks and related sub-surface contamination. The investigation confirmed the presence of at least five magnetic anomalies, some or all associated with former UST’s. Also detected were low levels of residual petroleum contamination, particularly in the suspected UST area at 9’-11.5’ below grade surface (bgs) (CLS soil boring B-2, B-2A & B-9 locations per the CLS Soil Boring Location Plan dated April 12, 2004).

In conjunction with the potential sale and development of the property, Flower City hired New York Environmental Technologies, Inc. (NYETECH) to oversee a focused sub-surface investigation utilizing excavation equipment to confirm the existence of UST’s at the property. The investigation was performed on March 31, 2010. Soils disturbed during the investigation were field screened for the presence of petroleum hydrocarbons using a photo ionic detector (PID meter). During the investigation, two (2) 1,000 gallon UST’s and one (1) 500 gallon gasoline UST and associated piping were detected. The locations of these three tanks were consistent with the tank locations as indicated on the Sanborn map. For identification purposes, the tanks will be known as South Tank #1 – 1,000 gallon, North Tank #2- 1,000 gallon and Northwest Tank #3- 500 gallon (refer to Figure I- site map). The piping from these tanks appeared to all run to one location in front of the former filling station building where the fuel dispensing island is assumed to once exist. Also encountered at the Southwest corner of the property were the remains of an abandoned in-ground hydraulic vehicle lift. Two additional test pits were excavated to depths of approximately 8’ bgs at the magnetic anomaly locations at the far northwest and north east corners of the lot. No storage tanks or petroleum impacts were encountered in these areas. It is believed that the anomalies discovered by CLS in these two areas were due to interference with nearby underground utilities. A final test pit at the assumed location of the former fuel dispensing island (between the former filling station building and South Avenue sidewalk) was excavated to a depth of 10’ bgs. The steel 2” piping and pipe fitting types encountered at 3-4’ bgs were consistent with that of a fuel dispensing island. No traces of petroleum impacted soil were encountered at any of the test pit, lift or tank

locations. Based on these investigation findings, Flower City hired NYETECH to excavate, remove and properly close the three tanks and the one vehicle lift.

2.0 TANK CLOSURE

Prior to removal of the UST's, NYETECH obtained a tank removal permit and approvals from the City of Rochester Fire Marshal's office and performed a public utility stake out, as required. The tank and lift removal activities were performed by NYETECH on April 13th and 14th, 2010.

The vehicle lift removed consisted of a single hydraulic cylinder/ram encased on a base concrete footer measuring 6' x 6' square and 8' in depth bgs. No hydraulic oil piping, oil reservoir, or hydraulic oil impacted soil associated with this lift was encountered during the lift removal. Once removed, one soil sample was obtained for confirmatory laboratory analysis at the lift excavation pit floor at 8' bgs. The concrete footer was crushed using a hoe ram and left on site for disposal by others. The steel lift cylinder was removed, rendered clean, and loaded onto a NYETECH truck for proper disposal.

Representatives from the City of Rochester Fire Marshal's office were onsite to oversee and monitor the tank removals. Also on site during the tanks removals were Dennis Peck from the City of Rochester Environmental Quality Department and John Billone from Flower City Development. According to Dennis Peck, the City of Rochester would complete the proper registration of the three tanks with the NYSDEC Petroleum Bulk Storage office, as required for database recording.

Prior to their removal, the three UST's were pumped of their liquids contents (residual gasoline and water), washed, and rendered vapor free using pressure washing equipment, water, a vacuum truck and compressed nitrogen. South Tank #1 contained approximately 700 gallons of old gasoline and water mixture. North Tank #2 contained approximately 250 gallons of water with petroleum odor. Northwest Tank #3 contained approximately 100 gallons of water and slight petroleum odor. A total of 1,213 gallons of gasoline/water mixture was generated from the pumping and cleaning of the three tanks (including wash water). All three tanks and related piping were removed from the ground and loaded onto NYETECH trucks for proper disposal. The two 1,000 gallon tanks (#1&2) were cylindrical with dimensions of 48" diameter by 10' 6" long. The 500 gallon tank (#3) was cylindrical with dimensions of 48" diameter by 5' 6" long. The bottom / floor depths for all three tanks were approximately 6' bgs. Disturbed soils in the three tank excavation areas were field screened using a PID meter and visually observed for the presence of petroleum compounds. No detectable PID petroleum hydrocarbon readings, soil discoloration, or petroleum odors were encountered in the tank excavation pits within 3' of the tank wall or bottom locations. Upon visual inspection, the sidewalls, bottoms and end wall surfaces of the three tanks had moderate corrosion, but no visible holes, cracks or voids were observed.

As no soil contamination was encountered directly below or within the tank fields, the three (3) tank pit floors were excavated further to the depths of 10'-11' bgs to verify the presence of petroleum impacts per the CLS geo-probe sub-surface investigation performed in 2004. Petroleum impacted soil was eventually encountered at all three tank pit floors starting at around 10.5' bgs. The soil matrix at 10.5' bgs was a mixture of fine sand, traces of clay, silt,

compact and wet with shale fragments. Field screening of soil samples obtained at these depths indicated moderate to strong petroleum odors and PID head space readings of 300-450 ppm. Within the required two-hour timeframe, the City of Rochester notified the NYSDEC Region 8 Spills unit. Spill #1000563 was assigned to the site. Mike Zamiarski was assigned as the NYSDEC project manager for the spill.

Prior to backfilling, two soil samples were obtained from each tank excavation pit for confirmatory laboratory analysis (one excavation floor grab sample at 10.5' bgs and one composite sample of the 4 sidewalls at 6' bgs- 2 samples per tank pit). Due to the clean nature of the soil directly below all three tank bottoms at 6' bgs, no samples were obtained from these depths and instead were obtained at the 10.5' levels where petroleum impacted soils were encountered. The tank excavation pits were backfilled by reusing clean excavated tank field soil and other fill material provided on site by Flower City. The site was restored to rough grade level. Final site restoration was to be performed by others.

The tank, piping and related metal debris were transported off site by NYETECH and properly disposed at Metalico metals reclamation facility in Rochester, NY. A total of 1,213 gallons of gasoline/water mixture was transported for reclamation at Industrial Oil Tank Services in Oriskany, NY (Refer to Figure IV- Waste Manifests / Disposal Receipts).

3.0 CONFIRMATORY SOIL ANALYSIS - LABORATORY REPORTS

The seven (7) soil samples obtained from the tank and lift excavations were placed in sterile sampling containers and transported following proper chain of custody protocol to Paradigm Laboratories in Rochester, NY. The hydraulic lift sample #1 was analyzed for semi-volatile organic compounds (SVOC's) using EPA STARS method 8270 and for PCB using EPA Method 8082. The tank excavation samples were analyzed for volatile organic compounds (VOC's) using EPA STARS method 8260 and semi-volatile organic compounds (SVOC's) using EPA STARS method 8270 (refer to Figure V- Confirmatory Soil Analysis Reports).

Based on the analysis reports:

- Volatile organic compounds (VOC's) were detected at the South #1 and Northwest #3 pit floors at 10.5' bgs, with several VOC contaminants at the north tank exceeding the NYSDEC TAGM 4046 clean up standard levels.
- semi volatile organic compounds were detected at the south tank pit at 10.5' bgs, but did not exceed the TAGM clean up standard levels
- no detectable levels of volatile or semi-volatile organic compounds were detected at any of the three tank excavation walls at 6' bgs
- additionally, no detectable levels of PCB or semi-volatile organic compounds were detected at the lift pit excavation limits

(Refer to Figure VI- Soil Analysis TAGM Comparison, Figure VII- NYSDEC TAGM 4046 Tables 1&2)

4.0 CONCLUSIONS

Based on the tank removal work performed to date as well as the results of the investigations described herein, NYETECH has developed the following conclusions:

- The three (3) UST's were removed and disposed in accordance with NYSDEC 6NYCRR Part 613.9 regulations,
- While petroleum contamination exists at the site (confirmed at 10.5 bgs), the location of the contamination does not at this time appear to be directly related to leaks from UST failures and/or related piping removed from the site. No petroleum impacts were detected at the 0-9' bgs level in any of the areas excavated including the tank fields and former fuel island area
- Petroleum impact (volatile organic compounds) levels detected in the south tank field at 10.5' bgs exceed the TAGM 4046 soil cleanup objective levels. These same contaminant levels however do not exceed the restricted use soil clean up objectives for commercial properties per the "Final Restricted Use Soil Cleanup Objectives, as presented in 6 NYCRR Part 375-6.8(b), Table 11-2 (Refer to Table VIII in this report)

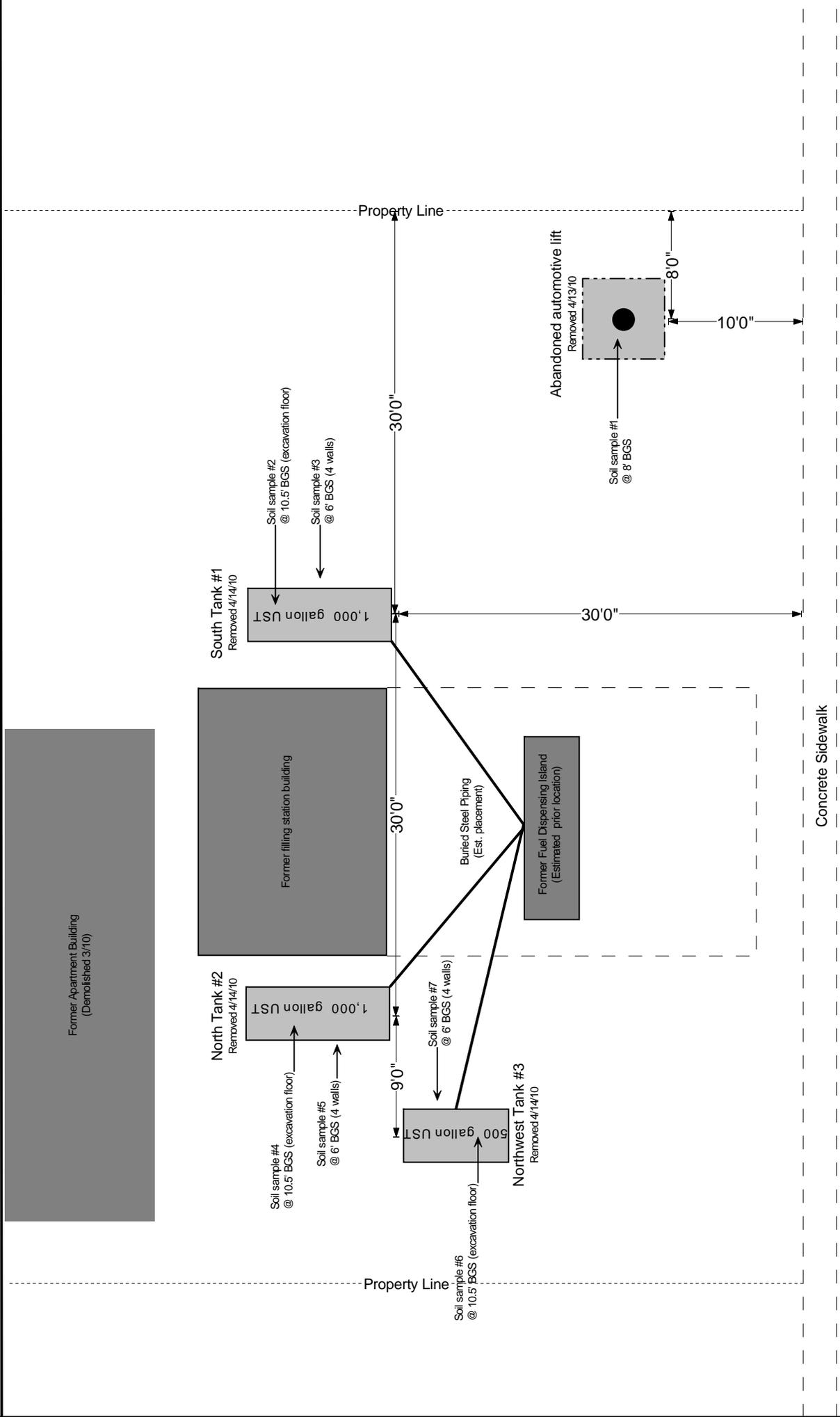
5.0 RECOMMENDATIONS

Based on the project objectives, findings, and conclusions provided, NYETECH recommends the following:

- A copy of this report should be submitted to Mike Zamiarski at NYSDEC for review to initiate tank closure and/or provide input for further remedial activities.

We hope this information meets your needs. Once input from NYSDEC is received, NYETECH can prepare further work plans for remediation as needed, with the goal of spill closure. If you have any questions in the meantime, please call us at (585) 436-5660.

Figure I – Site Map



Approximate Scale 1" = 10'

Site Name: 420 South Avenue
Rochester, NY 14607

May 5, 2010



Prepared by:

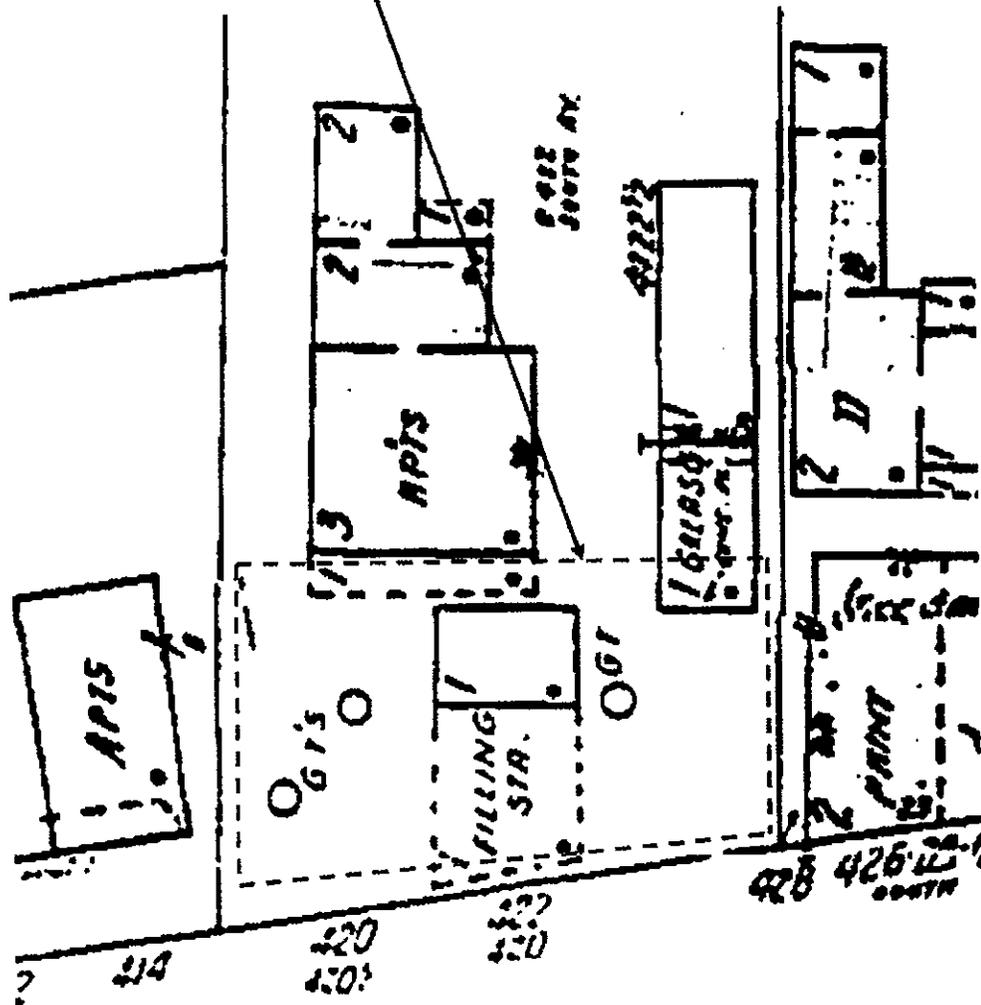


UST Removal- Site Map

Figure II – Sanborn Map



Geophysical (Magnetometer) Survey Area



CONSTRUCTION LENDING SERVICES, INC.
P.O. Box 272
Buffalo, New York 14205
Job No. 03CLS077.90 February 27, 2004

GEOPHYSICAL (MAGNETOMETER) SURVEY
1950 Sanborn Fire Insurance Map Base
420 South Avenue
Rochester, New York



Assessed Properties

BYRON STREET

SOUTH AVENUE (66' R.O.W.)

COMFORT STREET (60' ROW)

SOUTH

35

CECT

22-07-2

EX. BUILDING
EX. DRIVE
EX. SIDEWALK
EX. PAVEMENT
EX. 12" WATER MAIN
EX. 6" WATER MAIN
EX. 4" WATER MAIN
EX. 3" WATER MAIN
EX. 2" WATER MAIN
EX. 1.5" WATER MAIN
EX. 1" WATER MAIN
EX. 0.75" WATER MAIN
EX. 0.5" WATER MAIN
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Figure III – Tank Permit (prior use)

POST IN A CONSPICUOUS PLACE

Permit for the Storage and Sale of Explosives and Combustibles

DEPARTMENT OF PUBLIC SAFETY

BUREAU OF BUILDINGS

Plat Plan No. 408

N^o 13683

Rochester, N. Y., March 11th 1938 193

Permission is Hereby Granted to William Spitzer of

420 South Avenue R.O. Rochester, N. Y., to sell and store GASOLINE

at No. 420 South Avenue 20 Street. This Permit will expire Mar 1 1939

Public Station? Bulk? Wholesale? or Private Use? Public

If for Renewal, Transfer, or Additional Storage, give former Permit No. 12668

Number and Capacity of Tanks

Total Quantity 3500 Gallons. Number of Pumps 4

Thomas O. Woods
Commissioner of Public Safety.

Walker S. Lee
Superintendent of Buildings.

This Permit is granted on the express condition that the said Explosives or Combustibles are kept in an approved receptacle or apartment used exclusively for that purpose, approved by the Bureau, and not in proximity to Gas, Oil, Arc Lights or Stoves or any open flame; that signs "NO SMOKING," be placed in a conspicuous place on the premises where said Explosives or Combustibles are kept; that for other than Private Use approved foam extinguishment shall be provided.

Renewal, Additional Storage, Transfer

Permit Number	Date	Number and Capacity of Tanks	Number of Pumps
14743	MAR 7 1939	3-1000 1-500	4
15503	MAR 7 1940	<i>2-1000 1-500</i>	3
17124			
17900			
18598	AUG 28 1942	Gall Cleary	
19558	MAR 27 1943		
19680	MAR 21 1943	Angelo Scarantino 2-1000 1-500	2
20656	APR 3 1944	Theron H. Davis, 46 Vassar Street, Owner	
21494	MAR 15 1945	Joseph Rushlow, 247 Hamilton St, Lessee	
22845	APR 17 1945		
22918	JUN 6 1945	PAUL & DIEHL	
22952	AUG 17 1946	LEO & JIM	
23324	MAR 1 1947		
24424	MAR 1 - 1948	V & O SERVICE STA.	

Permit Number
 14235
 15919
 17037
 1833
 19440
 20430
 21501
 22870
 23449
 24896
 25940
 2674

This apartment open flame kept that

25909 MAR 15 1949 2-1000 1-500 2 Pumps
 26997 Hills Service

MAR 21 1950
 27742 MAR 12 1951

29221 MAY - 5 1952 ~~Evans-Service-Station-~~ Burall's Service Station

Pumps removed - tanks filled with concrete

4/14/53 - Wirley

Total Q
 Number
 If for Re
 Public S
 at No...
 43

P

FIGURE IV – WASTE MANIFESTS / DISPOSAL RECEIPTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

800-20-SPILL

10-630

5. Generator's Name and Mailing Address
Flower City Development
420 South Ave
Rochester NY

Generator's Site Address (if different than mailing address)

same

Generator's Phone:

6. Transporter 1 Company Name

New York Environmental Technologies Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Industrial Oil Tank Services Corp
120 Dry Road
Oriskany NY

U.S. EPA ID Number

Facility's Phone:

315-736-6080

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Gasoline mixture, 3, UN 1203, Po II

001

TT

1213

6

13. Special Handling Instructions and Additional Information

ERG 128

Job# 5815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

John Billone

[Signature]

8/4/10

INT'L

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

S. Reinken

[Signature]

8/4/10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

MARK Polisse

[Signature]

8/15/10

METALICO ROCHESTER, INC.

1515 SCOTTSVILLE RD.
ROCHESTER, NY 14623



SCALE RECEIVER

Account: NY0103
NYETECH
PO Box 24398

041510

BG

1

Rochester

NY 14624

Recv Date: 04/15/2010

Receiver #: 041630

Commodity	Description	Gross	Tare	Net
FE201	UNPREPARED HMS SHEARING	34,660	30,660	4,000
			Totals	4,000

*Tank and lift scrap disposal receipt
420 South ave*

THE LIST OF PROHIBITED ITEMS IS POSTED AT THE SCALE

The seller certifies that all refrigerant including but not limited to CFC's and HPC's as defined in section 508 of the Clean Air Act has not leaked and has previously been recovered from appliance prior to delivery. Seller certifies that the material delivered doesn't contain PCB capacitors, mercury switches, fluids or other materials

"Notwithstanding any other warranty or limitation of warranty herein, Seller warrants that to the best of his knowledge, based upon reasonable inquiry, the metal scrap to be delivered under this contract of sale does not contain any "hazardous substance", as that term is defined in 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act, 42, U.S.C., 6901(14), except those "hazardous substances" which are integral constituents of the metallic fraction of the scrap metal or which are contained in the electrolytic fluid in the spent lead acid battery. Seller will indemnify and hold Buyer harmless from any and all claims, demands and liabilities, including reasonable attorney's fees, resulting in whole or in part from a breach of the foregoing warrant."

PRINT NAME: _____ SIGNATURE: _____

STREET: _____

CITY, STATE ZIP: _____

**VENDOR DECLARES THAT THE SCRAP
BEING SOLD TO METALICO
ROCHESTER, INC. HAS BEEN
OBTAINED LEGALLY**

FIGURE V – CONFIRMATORY SOIL ANALYSIS REPORTS



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

NYE Tech

For Lab Project # 10-1512
Issued April 22, 2010
This report contains a total of 16 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.

"E" = Result has been estimated, calibration limit exceeded.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

PCB Analysis Report for Soils/Solids/Sludges

Client: NyeTech

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: Lift Pit @ 8' bgs
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5476
Date Sampled: 04/13/2010
Date Received: 04/15/2010
Date Analyzed: 04/16/2010

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.368
Aroclor 1221	ND< 0.368
Aroclor 1232	ND< 0.368
Aroclor 1242	ND< 0.368
Aroclor 1248	ND< 0.368
Aroclor 1254	ND< 0.368
Aroclor 1260	ND< 0.368

ELAP Number 10958

Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: Lift Pit@8' bgs
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5476
Date Sampled: 04/13/2010
Date Received: 04/15/2010
Date Analyzed: 04/19/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 353
Acenaphthylene	ND< 353
Anthracene	ND< 353
Benzo (a) anthracene	ND< 353
Benzo (a) pyrene	ND< 353
Benzo (b) fluoranthene	ND< 353
Benzo (g,h,i) perylene	ND< 353
Benzo (k) fluoranthene	ND< 353
Chrysene	ND< 353
Dibenz (a,h) anthracene	ND< 353
Fluoranthene	ND< 353
Fluorene	ND< 353
Indeno (1,2,3-cd) pyrene	ND< 353
Naphthalene	ND< 353
Phenanthrene	ND< 353
Pyrene	ND< 353

ELAP Number 10958

Method: EPA 8270C

Data File: S50605.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger, Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: NyeTech

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: South Tank floor@10.5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5477
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/20/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 627
Acenaphthylene	ND< 627
Anthracene	ND< 627
Benzo (a) anthracene	ND< 627
Benzo (a) pyrene	ND< 627
Benzo (b) fluoranthene	ND< 627
Benzo (g,h,i) perylene	ND< 627
Benzo (k) fluoranthene	ND< 627
Chrysene	ND< 627
Dibenz (a,h) anthracene	ND< 627
Fluoranthene	ND< 627
Fluorene	ND< 627
Indeno (1,2,3-cd) pyrene	ND< 627
Naphthalene	8,400
Phenanthrene	ND< 627
Pyrene	ND< 627

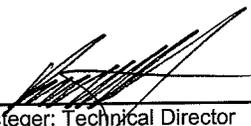
ELAP Number 10958

Method: EPA 8270C

Data File: S50631.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____


Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: South Tank Walls@6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5478
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/19/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 320
Acenaphthylene	ND< 320
Anthracene	ND< 320
Benzo (a) anthracene	ND< 320
Benzo (a) pyrene	ND< 320
Benzo (b) fluoranthene	ND< 320
Benzo (g,h,i) perylene	ND< 320
Benzo (k) fluoranthene	ND< 320
Chrysene	ND< 320
Dibenz (a,h) anthracene	ND< 320
Fluoranthene	ND< 320
Fluorene	ND< 320
Indeno (1,2,3-cd) pyrene	ND< 320
Naphthalene	ND< 320
Phenanthrene	ND< 320
Pyrene	ND< 320

ELAP Number 10958

Method: EPA 8270C

Data File: S50607.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: North Tank Floor @10.5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5479
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/19/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 312
Acenaphthylene	ND< 312
Anthracene	ND< 312
Benzo (a) anthracene	ND< 312
Benzo (a) pyrene	ND< 312
Benzo (b) fluoranthene	ND< 312
Benzo (g,h,i) perylene	ND< 312
Benzo (k) fluoranthene	ND< 312
Chrysene	ND< 312
Dibenz (a,h) anthracene	ND< 312
Fluoranthene	ND< 312
Fluorene	ND< 312
Indeno (1,2,3-cd) pyrene	ND< 312
Naphthalene	ND< 312
Phenanthrene	ND< 312
Pyrene	ND< 312

ELAP Number 10958

Method: EPA 8270C

Data File: S50608.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: North Tank Walls @6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5480
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/19/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 307
Acenaphthylene	ND< 307
Anthracene	ND< 307
Benzo (a) anthracene	ND< 307
Benzo (a) pyrene	ND< 307
Benzo (b) fluoranthene	ND< 307
Benzo (g,h,i) perylene	ND< 307
Benzo (k) fluoranthene	ND< 307
Chrysene	ND< 307
Dibenz (a,h) anthracene	ND< 307
Fluoranthene	ND< 307
Fluorene	ND< 307
Indeno (1,2,3-cd) pyrene	ND< 307
Naphthalene	ND< 307
Phenanthrene	ND< 307
Pyrene	ND< 307

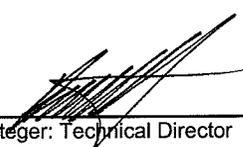
ELAP Number 10958

Method: EPA 8270C

Data File: S50613.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____


Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: NW Tank Floor@10.5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5481
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/19/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 316
Acenaphthylene	ND< 316
Anthracene	ND< 316
Benzo (a) anthracene	ND< 316
Benzo (a) pyrene	ND< 316
Benzo (b) fluoranthene	ND< 316
Benzo (g,h,i) perylene	ND< 316
Benzo (k) fluoranthene	ND< 316
Chrysene	ND< 316
Dibenz (a,h) anthracene	ND< 316
Fluoranthene	ND< 316
Fluorene	ND< 316
Indeno (1,2,3-cd) pyrene	ND< 316
Naphthalene	ND< 316
Phenanthrene	ND< 316
Pyrene	ND< 316

ELAP Number 10958

Method: EPA 8270C

Data File: S50614.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____


Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: NyeTech

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: NW Tank Walls@6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5482
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/19/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 382
Acenaphthylene	ND< 382
Anthracene	ND< 382
Benzo (a) anthracene	ND< 382
Benzo (a) pyrene	ND< 382
Benzo (b) fluoranthene	ND< 382
Benzo (g,h,i) perylene	ND< 382
Benzo (k) fluoranthene	ND< 382
Chrysene	ND< 382
Dibenz (a,h) anthracene	ND< 382
Fluoranthene	ND< 382
Fluorene	ND< 382
Indeno (1,2,3-cd) pyrene	ND< 382
Naphthalene	ND< 382
Phenanthrene	ND< 382
Pyrene	ND< 382

ELAP Number 10958

Method: EPA 8270C

Data File: S50615.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: South Tank Floor@10.5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5477
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/21/2010

Aromatics	Results in ug / Kg
Benzene	ND< 628
n-Butylbenzene	3,830
sec-Butylbenzene	1,670
tert-Butylbenzene	ND< 1,570
Ethylbenzene	2,150
n-Propylbenzene	3,940
Isopropylbenzene	ND< 3,140
p-Isopropyltoluene	3,180
Naphthalene	8,800
Toluene	ND< 628
1,2,4-Trimethylbenzene	25,600
1,3,5-Trimethylbenzene	11,100
m,p-Xylene	2,630
o-Xylene	ND< 628
Miscellaneous	
Methyl tert-butyl Ether	ND< 628

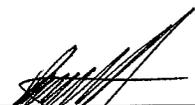
ELAP Number 10958

Method: EPA 8260B

Data File: V74592.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: South Tank Walls@6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5478
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/20/2010

Aromatics	Results in ug / Kg
Benzene	ND< 6.89
n-Butylbenzene	ND< 34.4
sec-Butylbenzene	ND< 6.89
tert-Butylbenzene	ND< 17.2
Ethylbenzene	ND< 6.89
n-Propylbenzene	ND< 6.89
Isopropylbenzene	ND< 34.4
p-Isopropyltoluene	ND< 34.4
Naphthalene	ND< 17.2
Toluene	ND< 6.89
1,2,4-Trimethylbenzene	ND< 6.89
1,3,5-Trimethylbenzene	ND< 6.89
m,p-Xylene	ND< 6.89
o-Xylene	ND< 6.89
Miscellaneous	
Methyl tert-butyl Ether	ND< 6.89

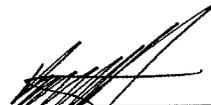
ELAP Number 10958

Method: EPA 8260B

Data File: V74539.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____



Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: North Tank Floor@10.5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5479
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/20/2010

Aromatics	Results in ug / Kg
Benzene	ND< 8.13
n-Butylbenzene	ND< 40.6
sec-Butylbenzene	ND< 8.13
tert-Butylbenzene	ND< 20.3
Ethylbenzene	ND< 8.13
n-Propylbenzene	ND< 8.13
Isopropylbenzene	ND< 40.6
p-Isopropyltoluene	ND< 40.6
Naphthalene	ND< 20.3
Toluene	ND< 8.13
1,2,4-Trimethylbenzene	ND< 8.13
1,3,5-Trimethylbenzene	ND< 8.13
m,p-Xylene	ND< 8.13
o-Xylene	ND< 8.13
Miscellaneous	
Methyl tert-butyl Ether	ND< 8.13

M

ELAP Number 10958

Method: EPA 8260B

Data File: V74540.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: North Tank Walls@6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5480
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/20/2010

Aromatics	Results in ug / Kg
Benzene	ND< 8.82
n-Butylbenzene	ND< 44.1
sec-Butylbenzene	ND< 8.82
tert-Butylbenzene	ND< 22.1
Ethylbenzene	ND< 8.82
n-Propylbenzene	ND< 8.82
Isopropylbenzene	ND< 44.1
p-Isopropyltoluene	ND< 44.1
Naphthalene	ND< 22.1
Toluene	ND< 8.82
1,2,4-Trimethylbenzene	ND< 8.82
1,3,5-Trimethylbenzene	ND< 8.82
m,p-Xylene	ND< 8.82
o-Xylene	ND< 8.82
Miscellaneous	
Methyl tert-butyl Ether	ND< 8.82

ELAP Number 10958

Method: EPA 8260B

Data File: V74541.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: NyeTech

Client Job Site: 420 South Ave
 Rochester
Client Job Number: R5821
Field Location: NW Tank Floor@10.5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5481
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/20/2010

Aromatics	Results in ug / Kg
Benzene	ND< 85.1
n-Butylbenzene	ND< 425
sec-Butylbenzene	ND< 85.1
tert-Butylbenzene	ND< 213
Ethylbenzene	ND< 85.1
n-Propylbenzene	95.4
Isopropylbenzene	ND< 425
p-Isopropyltoluene	ND< 425
Naphthalene	ND< 213
Toluene	ND< 85.1
1,2,4-Trimethylbenzene	670
1,3,5-Trimethylbenzene	201
m,p-Xylene	ND< 85.1
o-Xylene	ND< 85.1
Miscellaneous	
Methyl tert-butyl Ether	ND< 85.1

ELAP Number 10958

Method: EPA 8260B

Data File: V74542.D

Comments: ND denotes Non Detect
 ug / Kg = microgram per Kilogram

Signature: _____


 Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NyeTech**

Client Job Site: 420 South Ave
Rochester
Client Job Number: R5821
Field Location: NW Tank Walls@6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-1512
Lab Sample Number: 5482
Date Sampled: 04/14/2010
Date Received: 04/15/2010
Date Analyzed: 04/20/2010

Aromatics	Results in ug / Kg
Benzene	ND< 7.84
n-Butylbenzene	ND< 39.2
sec-Butylbenzene	ND< 7.84
tert-Butylbenzene	ND< 19.6
Ethylbenzene	ND< 7.84
n-Propylbenzene	ND< 7.84
Isopropylbenzene	ND< 39.2
p-Isopropyltoluene	ND< 39.2
Naphthalene	ND< 19.6
Toluene	ND< 7.84
1,2,4-Trimethylbenzene	ND< 7.84
1,3,5-Trimethylbenzene	ND< 7.84
m,p-Xylene	ND< 7.84
o-Xylene	ND< 7.84
Miscellaneous	
Methyl tert-butyl Ether	ND< 7.84

ELAP Number 10958

Method: EPA 8260B

Data File: V74543.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____


Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. *Wood and Play Towers 4/12* **CHAIN OF CUSTODY** *DO# 34779*

1791 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

PROJECT NAME/SITE NAME:
420 South Ave
Rochester

REPORT TO: _____ INVOICE TO: _____

COMPANY: **Nye Tech** ADDRESS: **PO Box 21398** CITY: **Rochester NY** STATE: **NY** ZIP: **14624**

COMPANY: _____ ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

PHONE: **436-5660** FAX: _____ PHONE: _____ FAX: _____

ATTN: **Sprinkler@Nye-Tech.com** ATTN: _____

LAB PROJECT #: **10-1512** CLIENT PROJECT #: **R5821**

TURNAROUND TIME: (WORKING DAYS) _____

QUOTE #: 1 2 3 5 OTHER

DATE	TIME	COMPOSITE	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R S	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/13/10	1400	X		LIFT PIT @ 8' bgs	Soil	1		54778
4/14/10	1130	X		South tower Floor @ 10.5'		1		54777
	1130	X		South Tower Walls @ 6'		1		54778
	1400	X		NORTH Tower Floor @ 10.5'		1		54779
	1400	X		NORTH Tower Walls @ 6'		1		54800
	1500	X		NW Tower Floor @ 10.5'		1		54801
	1500	X		NW Tower Walls @ 6'		1		54802

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter: _____ NELAC Compliance

Container Type: _____

Preservation: **N/A**

Holding Time: _____

Temperature: **16°C**

Sampled By: *S Sprinkler* Date/Time: **4/13 + 4/14/2010**

Received By: *Elizabeth Honack* Date/Time: **4/15/10 1405**

Received @ Lab By: _____ Date/Time: _____

Total Cost: _____

P.I.F. _____

REQUESTED ANALYSIS

22 EAH 4/15

FIGURE VI – SOIL ANALYSIS TAGM COMPARISON SUMMARY

**TABLE 1
SUMMARY OF STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
420 South Ave**

Sample ID Location Lab Sample Number Sampling Date Matrix Dilution Factor	STARS Memo #1 Soil Guidance Values	TAGM Recommended Soil Cleanup Objective (1)	#2 St tank floor 4/14/2010 SOIL 1	#3 S tank walls 5478 4/14/2010 SOIL 1	#4 N tank floor 5479 4/14/2010 SOIL 1	#5 N tank walls 5480 4/14/2010 SOIL 1	#6 Nw tank floor 5481 4/14/2010 SOIL 1	#7 Nw tank walls 5482 4/14/2010 SOIL 1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND								
Benzene	14	60 or MDL	ND	ND	ND	ND	ND	ND
n-Butyl-Benzene	100	10,000 *	3830	ND	ND	ND	ND	ND
sec-Butyl-Benzene	100	10,000 *	1670	ND	ND	ND	ND	ND
Tert-Butyl-Benzene	100	10,000 *	ND	ND	ND	ND	ND	ND
Ethylbenzene	100	5,500	2150	ND	ND	ND	ND	ND
n-Propylbenzene	100	3,700	3940	ND	ND	95.4	ND	ND
Isopropylbenzene	100	2,300	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	100	10,000 *	3180	ND	ND	ND	ND	ND
Naphthalene	200	13,000	8,800	ND	ND	ND	ND	ND
Toluene	100	1,500	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	100	10,000 *	25600	ND	ND	ND	670	ND
1,3,5-Trimethylbenzene	100	3,300	11100	ND	ND	ND	201	ND
Xylenes, m/p-	100	1,200	2630	ND	ND	ND	ND	ND
Xylene, o-	100	1,200	ND	ND	ND	ND	ND	ND
Methyl-Tert-Butyl-Ether(MTBE)	1000	120	ND	ND	ND	ND	ND	ND
Total TICs		10,000 *	62,900	0	0	0	966	0

Notes:

- Refer to Table 3 for an explanation of data qualifiers.
- NYSDEC, January 24, 1994, Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046). Revised July 2001.
- NYSDEC, August 1992, STARS Memo #1 Petroleum-Contaminated Soil Guidance Policy, Division of Construction Management, Bureau of Spill Prevention and Response.
- All values expressed in micrograms per kilogram, which are equivalent to parts per billion (ppb).
- Bold-faced** values are concentrations that have been reported above the detection limits.
- Bold-faced, Underlined, and Italicized** values are reported concentrations that exceed the NYSDEC TAGM recommended soil cleanup objective.
- Bold-faced, Underlined, and Italicized** values are reported concentrations that exceed the NYSDEC STARS recommended soil cleanup objective.
- U = The analyte was analyzed for, but was not detected above the reported quantitation limit.
- * = As per TAGM 4046, total VOCs may not exceed 10,000 ppb.

TABLE 2
SUMMARY OF STARS SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
420 South Ave

Sample ID	STARS	TAGM	#1	#2	#3	#4	#5	#6	#7
Location	Memo #1	Recommended	Lift Pit @ 8'	S tank floor	S tank walls	N tank floor	N tank walls	Nw tank floor	Nw tank walls
Lab Sample Number	Soil Guidance Values	Soil Cleanup Objective (1)	5476	5477	5478	5479	5480	5481	5482
Sampling Date			4/13/2010	4/14/2010	4/14/2010	4/14/2010	4/14/2010	4/14/2010	4/14/2010
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND									
Acenaphthene	400	50,000 *	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NA	41,000	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	50,000 *	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	.04*	224 or MDL	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	.04*	1000 or MDL	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	.04*	1,100	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	.04*	50,000 *	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	.04*	1,100	ND	ND	ND	ND	ND	ND	ND
Chrysene	.04*	1000	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	1,000	14 or MDL	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	50,000 *	ND	ND	ND	ND	ND	ND	ND
Fluorene	1,000	50,000 *	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	.04*	3,200	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200	13,000	ND	8,400	ND	ND	ND	ND	ND
Phenanthrene	1,000	50,000 *	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,000	50,000 *	ND	ND	ND	ND	ND	ND	ND
Total TICs	10,000**	500,000 *	0	8,400	0	0	0	0	0

Notes:

1. Refer to Table 3 for an explanation of data qualifiers.
2. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046). Revised July 2001.
3. NYSDEC. August 1992. STARS Memo #1 Petroleum-Contaminated Soil Guidance Policy, Division of Construction Management, Bureau of Spill Prevention and Response.
4. All values expressed in micrograms per kilogram, which are equivalent to parts per billion (ppb).
5. **Bold-faced** values are concentrations that have been reported above the detection limits.
6. **Bold-faced, Underlined, and Italicized** values are reported concentrations that exceed the NYSDEC TAGM recommended soil cleanup objective.
7. **Bold-faced, Underlined, and Italicized** values are reported concentrations that exceed the NYSDEC STARS recommended soil cleanup objective.
8. U = The analyte was analyzed for, but was not detected above the reported quantitation limit.
9. * = As per TAGM 4046, individual SVOCs may not exceed 50,000 ppb and total SVOCs may not exceed 500,000 ppb.
10. ** = As per STARS Memo #1, no individual contaminant may exceed 10,000 ug/kg.
11. * = TCLP Extraction required to demonstrate groundwater quality protection for these compounds.

FIGURE VII- NYSDEC TAGM 4046 (Tables 1&2)

TAGM 4046 Table 1 - Volatile Organic Contaminants

Table 1 Recommended soil cleanup objectives (mg/kg or ppm) Volatile Organic Contaminants								
Contaminant	Partition Coefficient, K _{oc}	Groundwater Standards/ Criteria, C _w (ug/l or ppb)	<u>a</u> Allowable soil conc., C _s (ppm)	<u>b</u> ** Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm)		CRQL (ppb)	*** Rec. Soil Cleanup Objective (ppm)
					Carcinogens	Systemic Toxicants		
Acetone	2.2	50	0.0011	0.11	N/A	8,000	10	0.2
Benzene	83	0.7	0.0006	0.06	24	N/A	5	0.06
Benzoic Acid	54 *	50	0.027	2.7	N/A	300,000	5	2.7
2-Butanone	4.5 *	50	0.003	0.3	N/A	4,000	10	0.3
Carbon Disulfide	54 *	50	0.027	2.7	N/A	8,000	5	2.7
Carbon Tetrachloride	110 *	5	0.006	0.6	5.4	60	5	0.6
Chlorobenzene	330	5	0.017	1.7	N/A	2,000	5	1.7
Chloroethane	37 *	50	0.019	1.9	N/A	N/A	10	1.9
Chloroform	31	7	0.003	0.30	114	800	5	0.3
Dibromochloromethane	N/A	50	N/A	N/A	N/A	N/A	5	N/A
1,2-Dichlorobenzene	1,700	4.7	0.079	7.9	N/A	N/A	330	7.9
1,3-Dichlorobenzene	310 *	5	0.0155	1.55	N/A	N/A	330	1.6
1,4-Dichlorobenzene	1,700	5	0.085	8.5	N/A	N/A	330	8.5
1,1-Dichloroethane	30	5	0.002	0.2	N/A	N/A	5	0.2
1,2-Dichloroethane	14	5	0.001	0.1	7.7	N/A	5	0.1
1,1-Dichloroethene	65	5	0.004	0.4	12	700	5	0.4
1,2-Dichloroethene (trans)	59	5	0.003	0.3	N/A	2,000	5	0.3
1-3 dichloropropane	51	5	0.003	0.3	N/A	N/A	5	0.3
Ethylbenzene	1,100	5	0.055	5.5	N/A	8,000	5	5.5
113 Freon (1,1,2 Trichloro-1,2,2 Trifluoroethane)	1,230 *	5	0.060	6.0	N/A	200,000	5	6.0
Methylene chloride	21	5	0.001	0.1	93	5,000	5	0.1
4-Methyl-2-Pentanone	19 *	50	0.01	1.0	N/A	N/A	10	1.0
Tetrachloroethene	277	5	0.014	1.4	14	800	5	1.4
1,1,1-Trichloroethane	152	5	0.0076	0.76	N/A	7,000	5	0.8
1,1,2,2-Tetrachloroethane	118	5	0.006	0.6	35	N/A	5	0.6
1,2,3-trichloropropane	68	5	0.0034	0.34	N/A	80	5	0.4
1,2,4-trichlorobenzene	670 *	5	0.034	3.4	N/A	N/A	330	3.4
Toluene	300	5	0.015	1.5	N/A	20,000	5	1.5

Trichloroethene	126	5	0.007	0.70	64	N/A	5	0.7
Vinyl chloride	57	2	0.0012	0.12	N/A	N/A	10	0.2
Xylenes	240	5	0.012	1.2	N/A	200,000	--	1.2

a. Allowable Soil Concentration $C_s = f \times C_w \times K_{oc}$

b. Soil cleanup objective = $C_s \times$ Correction Factor (CF)

N/A is not available

* Partition coefficient is calculated by using the following equation:

$\log K_{oc} = -0.55 \log S + 3.64$, where S is solubility in water in ppm.

All other K_{oc} values are experimental values.

** Correction Factor (CF) of 100 is used as per TAGM #4046

*** As per TAGM #4046, Total VOCs < 10 ppm.

Note: Soil cleanup objectives are developed for soil organic carbon content (f) of 1%, and should be adjusted for the actual soil organic carbon content if it is known.

TAGM 4046 Table 2 - Semi-Volatile Organic Contaminants

TABLE 2 - Recommended soil cleanup objectives (mg/kg or ppm) Semi-Volatile Organic Contaminants

Contaminant	Partition Coefficient, Koc	Groundwater Standards/ Criteria, Cw (ug/l or ppb)	<u>a</u> Allowable soil conc., Cs (ppm)	<u>b</u> <u>**</u> Soil cleanup objectives to protect GW quality (ppm)	USEPA Health Based (ppm)		CRQL (ppb)	<u>***</u> Rec. Soil Cleanup Objective (ppm)
				Carcinogens	Systemic Toxicants			
Acenaphthene	4,600	20	0.9	90.0	N/A	5,000	330	50.0 <u>***</u>
Acenaphthylene	2,056 <u>*</u>	20	0.41	41.0	N/A	N/A	330	41.0
Aniline	13.8	5	0.001	0.1	123	N/A	330	0.1
Anthracene	14,000	50	7.00	700.0	N/A	20,000	330	50.0 <u>***</u>
Benzo(a)anthracene	1,380,000	0.002	0.03	3.0	0.224	N/A	330	0.224 or MDL
Benzo (a) pyrene	5,500,000	0.002 (ND)	0.110	11.0	0.0609	N/A	330	0.061 or MDL
Benzo (b) fluoranthene	550,000	0.002	0.011	1.1	N/A	N/A	330	1.1
Benzo (g,h,i) perylene	1,600,000	5	8.0	800	N/A	N/A	330	50.0 <u>***</u>
Benzo (k) fluoranthene	550,000	0.002	0.011	1.1	N/A	N/A	330	1.1
bis(2-ethylhexyl)phthalate	8,706 <u>*</u>	50	4.35	435.0	50	2,000	330	50.0 <u>***</u>
Butylbenzylphthalate	2,430	50	1.215	122.0	N/A	20,000	330	50.0 <u>***</u>
Chrysene	200,000	0.002	0.004	0.4	N/A	N/A	330	0.4
4- Chloroaniline	43 <u>****</u>	5	0.0022	0.22	200	300	330	0.220 or MDL
4-Chloro-3-methylphenol	47	5	0.0024	0.24	N/A	N/A	330	0.240 or MDL
2-Chlorophenol	15 <u>*</u>	50	0.008	0.8	N/A	400	330	0.8
Dibenzofuran	1,230 <u>*</u>	5	0.062	6.2	N/A	N/A	330	6.2
Dibenzo(a,h)anthracene	33,000,000	50	1,650	165,000	0.0143	N/A	330	0.014 or MDL
3,3'-Dichlorobenzidine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	380	1	0.004	0.4	N/A	200	330	0.4
2,4-Dinitrophenol	38	5	0.002	0.2	N/A	200	1,600	0.200 or MDL
2,6 Dinitrotoluene	198 <u>*</u>	5	0.01	1.0	1.03	N/A	330	1.0
Diethylphthalate	142	50	0.071	7.1	N/A	60,000	330	7.1
Dimethylphthalate	40	50	0.020	2.0	N/A	80,000	330	2.0
Di-n-butyl phthalate	162 <u>*</u>	50	0.081	8.1	N/A	8,000	330	8.1
Di-n-octyl phthalate	2,346 <u>*</u>	50	1.2	120.0	N/A	2,000	330	50.0 <u>***</u>
Fluoranthene	38,000	50	19	1900.0	N/A	3,000	330	50.0 <u>***</u>
Fluorene	7,300	50	3.5	350.0	N/A	3,000	330	50.0 <u>***</u>
Hexachlorobenzene	3,900	0.35	0.014	1.4	0.41	60	330	0.41
Indeno (1,2,3-cd)pyrene	1,600,000	0.002	0.032	3.2	N/A	N/A	330	3.2

Isophorone	88.31 *	50	0.044	4.40	1,707	20,000	330	4.40
2-methylnaphthalene	727 *	50	0.364	36.4	N/A	N/A	330	36.4
2-Methylphenol	15	5	0.001	0.1	N/A	N/A	330	0.100 or MDL
4-Methylphenol	17	50	0.009	0.9	N/A	4,000	330	0.9
Naphthalene	1,300	10	0.130	13.0	N/A	300	330	13.0
Nitrobenzene	36	5	0.002	0.2	N/A	40	330	0.200 or MDL
2-Nitroaniline	86	5	0.0043	0.43	N/A	N/A	1,600	0.430 or MDL
2-Nitrophenol	65	5	0.0033	0.33	N/A	N/A	330	0.330 or MDL
4-Nitrophenol	21	5	0.001	0.1	N/A	N/A	1,600	0.100 or MDL
3-Nitroaniline	93	5	0.005	0.5	N/A	N/A	1,600	0.500 or MDL
Pentachlorophenol	1,022	1	0.01	1.0	N/A	2,000	1,600	1.0 or MDL
Phenanthrene	4,365 *	50	2.20	220.0	N/A	N/A	330	50.0 ***
Phenol	27	1	0.0003	0.03	N/A	50,000	330	0.03 or MDL
Pyrene	13,295 *	50	6.65	665.0	N/A	2,000	330	50.0 ***
2,4,5-Trichlorophenol	89 *	1	0.001	0.1	N/A	8,000	330	0.1

a Allowable Soil Concentration $C_s = f \times C_w \times K_{oc}$

b Soil Cleanup Objective = $C_s \times$ Correction Factor (CF)

N/A Not available

MDL Method Detection Limit

* Partition coefficient is calculated by using the following equation:

$\log K_{oc} = -0.55 \log S + 3.64$, where S is solubility in water in ppm.
Other K_{oc} values are experimental values.

** Correction Factor (CF) of 100 is used as per TAGM #4046

*** As per TAGM #4046, Total VOCs < 10 ppm., Total Semi-VOCs < 500ppm. and Individual Semi-VOCs < 50 ppm.

**** K_{oc} is derived from the correlation $K_{oc} = 0.63 K_{ow}$ (Determining Soil Response Action Levels.....

EPA/540/2-89/057). K_{ow} is obtained from the USEPA computer database 'MAIN'.

Note: Soil cleanup objectives are developed for soil organic carbon content (f) of 1%, and should be adjusted for the actual soil organic carbon content if it is known.

FIGURE VIII- 6NYCRR PART 375-6.8(b), TABLE 11-2

Table 11-2. Final Restricted Use SCOs as Presented in 6 NYCRR Part 375-6.8(b).

Restricted Use Soil Cleanup Objectives							
Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Metals							
Arsenic	7440-38-2	16 ^f	16 ^f	16 ^f	16 ^f	13 ^f	16 ^f
Barium	7440-39-3	350 ^f	400	400	10,000 ^d	433	820
Beryllium	7440-41-7	14	72	590	2,700	10	47
Cadmium	7440-43-9	2.5 ^f	4.3	9.3	60	4	7.5
Chromium, hexavalent ^h	18540-29-9	22	110	400	800	1 ^e	19
Chromium, trivalent ^h	16065-83-1	36	180	1,500	6,800	41	NS
Copper	7440-50-8	270	270	270	10,000 ^d	50	1,720
Total Cyanide ^h		27	27	27	10,000 ^d	NS	40
Lead	7439-92-1	400	400	1,000	3,900	63 ^f	450
Manganese	7439-96-5	2,000 ^f	2,000 ^f	10,000 ^d	10,000 ^d	1600 ^f	2,000 ^f
Total Mercury		0.81 ^j	0.81 ^j	2.8 ^j	5.7 ^j	0.18 ^f	0.73
Nickel	7440-02-0	140	310	310	10,000 ^d	30	130
Selenium	7782-49-2	36	180	1,500	6,800	3.9 ^f	4 ^f
Silver	7440-22-4	36	180	1,500	6,800	2	8.3
Zinc	7440-66-6	2200	10,000 ^d	10,000 ^d	10,000 ^d	109 ^f	2,480
PCBs/Pesticides							
2,4,5-TP Acid (Silvex)	93-72-1	58	100 ^a	500 ^b	1,000 ^c	NS	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 ^{e1}	17
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 ^{e1}	136
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 ^{e1}	14

Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04 ^k	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9
delta-BHC	319-86-8	100 ^a	100 ^a	500 ^b	1,000 ^c	0.04 ^k	0.25
Dibenzofuran	132-64-9	14	59	350	1,000 ^c	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	102
Endosulfan II	33213-65-9	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	102
Endosulfan sulfate	1031-07-8	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	1,000 ^c
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2

Semivolatiles

Acenaphthene	83-32-9	100 ^a	100 ^a	500 ^b	1,000 ^c	20	98
Acenaphthylene	208-96-8	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	107
Anthracene	120-12-7	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	1,000 ^c
Benz(a)anthracene	56-55-3	1 ^f	1 ^f	5.6	11	NS	1 ^f
Benzo(a)pyrene	50-32-8	1 ^f	1 ^f	1 ^f	1.1	2.6	22
Benzo(b)fluoranthene	205-99-2	1 ^f	1 ^f	5.6	11	NS	1.7
Benzo(g,h,i)perylene	191-24-2	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	1,000 ^c
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7

Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Chrysene	218-01-9	1 ^f	3.9	56	110	NS	1 ^f
Dibenz(a,h)anthracene	53-70-3	0.33 ^e	0.33 ^e	0.56	1.1	NS	1,000 ^c
Fluoranthene	206-44-0	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	1,000 ^c
Fluorene	86-73-7	100 ^a	100 ^a	500 ^b	1,000 ^c	30	386
Indeno(1,2,3-cd)pyrene	193-39-5	0.5 ^f	0.5 ^f	5.6	11	NS	8.2
m-Cresol	108-39-4	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	0.33 ^e
Naphthalene	91-20-3	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	12
o-Cresol	95-48-7	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	0.33 ^e
p-Cresol	106-44-5	34	100 ^a	500 ^b	1,000 ^c	NS	0.33 ^e
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8 ^e	0.8 ^e
Phenanthrene	85-01-8	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	1,000 ^c
Phenol	108-95-2	100 ^a	100 ^a	500 ^b	1,000 ^c	30	0.33 ^e
Pyrene	129-00-0	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	1,000 ^c
Volatiles							
1,1,1-Trichloroethane	71-55-6	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	0.33
1,2-Dichlorobenzene	95-50-1	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02 ^f
cis-1,2-Dichloroethene	156-59-2	59	100 ^a	500 ^b	1,000 ^c	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4

Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1 ^e	0.1 ^e
Acetone	67-64-1	100 ^a	100 ^b	500 ^b	1,000 ^c	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
n-Butylbenzene	104-51-8	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100 ^a	100 ^a	500 ^b	1,000 ^c	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33 ^c	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100 ^a	100 ^a	500 ^b	1,000 ^c	100 ^a	0.12
Methyl tert-butyl ether	1634-04-4	62	100 ^a	500 ^b	1,000 ^c	NS	0.93
Methylene chloride	75-09-2	51	100 ^a	500 ^b	1,000 ^c	12	0.05
n-Propylbenzene	103-65-1	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	3.9
sec-Butylbenzene	135-98-8	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	11
tert-Butylbenzene	98-06-6	100 ^a	100 ^a	500 ^b	1,000 ^c	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100 ^a	100 ^a	500 ^b	1,000 ^c	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	100 ^a	100 ^a	500 ^b	1,000 ^c	0.26	1.6

All Soil clean up objectives (SCOs) are in parts per million (ppm).
NS=Not specified. See Technical Support Document (TSD).

Footnotes:

- ^a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm, see TSD Section 9.3.
- ^b The SCOs for commercial use were capped at a maximum value of 500 ppm, see TSD Section 9.3.
- ^c The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm, see TSD Section 9.3.
- ^d The SCOs for metals were capped at a maximum value of 10,000 ppm, see TSD Section 9.3.
- ^e For constituents where the calculated SCO was lower than the Contract Required Quantitation Limit (CRQL), the CRQL is used as the SCO value.
- ^f For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.
- ^g SCO is the sum of DDD, DDE and DDT.
- ^h The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.
- ⁱ This SCO is for the sum of Endosulfan I, Endosulfan II and Endosulfan Sulfate.
- ^j This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts), see TSD table 5.6-1.
- ^k This SCO is derived from data on mixed isomers of BHC.
- ^l This SCO is for the sum of DDD, DDE and DDT.