

Phase II Environmental Investigation Report

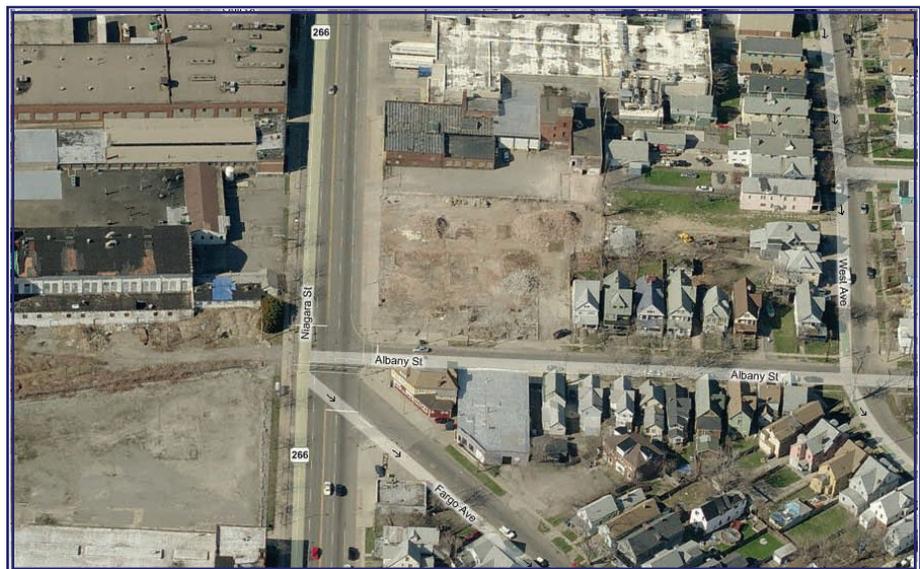
1095 Niagara Street Site Buffalo, New York

June 2008

0136-012-100

Prepared For:

1093 Group, LLC



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PHASE II ENVIRONMENTAL INVESTIGATION REPORT

**1095 NIAGARA STREET
BUFFALO, NEW YORK**

June 2008

0136-012-100

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1095 Niagara Street Site

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PHASE II ENVIRONMENTAL INVESTIGATION REPORT

1095 Niagara Street Site

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1.0 INTRODUCTION

1.1 Background and Site Description

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Investigation at 1095 Niagara Street, Buffalo, New York (Site), on behalf of 1093 Group, LLC, who is considering purchasing the Site. The property is characterized as an approximate 0.95-acre vacant property, formerly owned and operated by Keystone Chromium Corporation as a metal plating operation. The subject property is located in a mixed commercial-industrial and residential area of the City of Buffalo.

This Phase II site investigation was conducted based on the findings of the Phase I Environmental Site Assessment (ESA) report prepared by TurnKey (May 2008). The findings of the Phase I ESA included:

- The subject property was formerly owned by the Keystone Chromium Corporation, a chromium plating operation. The site had been a metal alloy foundry since at least 1905 and metal plating operation since at least 1936. Metal plating facilities typically generate hazardous wastes such as spent halogenated solvents/degreasers, acid solutions, and metal-laden wastewater.
- Several areas of staining were noted during the Site reconnaissance. Some of the staining was green, potentially indicating a chromium release.
- Several 55-gallons drums with unknown contents were noted on Site.
- The subject property was listed as a Resource Conservation and Recovery Act (RCRA) – Non Gen, NY Spills (NY SPILLS), NY Historical Spills (Hist SPILLS), Manifest, and a FINDS site. The Site was classified as a Large Quantity Generator of Hazardous Waste from at least 1984 through at least 2001. The facility generated several hazardous waste streams (F001, F002, F006 and D002), including halogenated solvents, electroplating sludge and corrosive wastes.

This investigation included completion of a limited surface, subsurface soil and groundwater investigation of the Site to assess potential environmental impact related to historic Site use as a metal plating operation and foundry as identified in the Phase I ESA. An additional objective was to assess imported backfill that was recently brought to the Site.

2.0 METHODS OF INVESTIGATION

2.1 Soil Borings and Soil Sampling

On May 19, 2008, soil borings SB-1 through SB-9 were completed on the Site (see Figure 2). A summary of the soil sample locations and rationale is included in the table below.

Sample Location	Rationale	Photo
SB-1 through SB-9	Subsurface soil characterization-historic metal plating facility	(none)
SS-1	Dark blue colored soils	 A photograph showing a soil sample with a distinct dark blue color. The soil is surrounded by rocks and debris. A yellow timestamp '05/19/2008' is visible in the bottom right corner.
SS-2	Tan colored soils	 A photograph showing a soil sample with a tan or light brown color. A person wearing blue gloves is using a tool to dig into the soil. A yellow timestamp '05/19/2008' is visible in the bottom right corner.
SS-3	Light blue colored soils	 A photograph showing a soil sample with a light blue color. A person wearing blue gloves is holding a small container and a spoon, examining the soil. A yellow timestamp '05/19/2008' is visible in the bottom right corner.
SS-4	Green colored soils	 A photograph showing a soil sample with a green color. The soil is surrounded by rocks and debris. A yellow timestamp '05/19/2008' is visible in the bottom right corner.

Sample Location	Rationale	Photo
SS-5	Green colored soils	
SS-6	Violet colored soil	
Pile	Imported backfill piles	

Soil samples were collected with a track-mounted percussion and hydraulically driven drive system equipped with an approximate 1.5-inch diameter, approximate 48-inch long macro-core sampler. Soil samples were generally collected within each borehole continuously from the ground surface until approximately 12 feet below the ground surface (fbgs) (i.e., the target depth), or until equipment refusal was encountered. Any down-hole equipment was decontaminated between boreholes with an Alconox/water wash followed by a tap water rinse. The cutting shoes were decontaminated in a similar manner between the collections of each sample. Surface soil samples were collected with a sampling spoon.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method). TurnKey personnel scanned each 4-foot core in one foot intervals for total volatile organic vapors with a Mini Rae 2000 Photoionization Detector (PID) equipped with a 10.6 eV lamp and noted visual and/or olfactory observations. The PID is capable of detecting the presence of contaminants that

emit volatile organic compounds (VOCs) such as petroleum products and solvents with ionization potentials less than 10.6 eV. PID measurements were then recorded on the Field Geoprobe Borehole Logs (see Appendix A) and in the Project Field Book.

To assess potential impacts across the Site, surface samples, subsurface soil samples and samples collected from recently imported backfill were submitted to the laboratory for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and metals (plus cyanide) analyses. Soil analytical results are presented in Table 1. The soil samples were submitted under standard chain-of-custody to TestAmerica Laboratories, Inc., a National Environmental Laboratory Accreditation Council (NELAC)-approved laboratory, for analysis in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8260 for Target Compound List (TCL) plus NYSDEC STARS List VOCs (subsurface samples), Method 8270 for TCL SVOCs (imported backfill), Method 8082 for PCBs (imported backfill) and Method 6010/7471 for Resource Conservation and Recovery Act (RCRA) metals plus cyanide (surface samples, subsurface samples and imported backfill).

2.2 Temporary Monitoring Well Installation and Groundwater Sampling

Following borehole advancement as described above, five temporary monitoring wells (TMWs) were installed within SB-2 through SB-6 to collect a representative groundwater sample. Temporary well locations are shown on the subject property as shown on Figure 2. It should be noted that there was not sufficient groundwater within TMW-2 through TMW-5 on May 20, 2008 (one-day after installation). On May 26, 2008, TurnKey returned to the Site to sample water within the wells, if present; however, the Site had been graded by the current property owner and TMW-2 through TMW-5 were destroyed; therefore, only TMW-1 was sampled. The well construction diagrams are provided in Appendix A.

A groundwater grab sample was collected from TMW-1 and was placed in pre-cleaned laboratory provided sample vials, cooled to 4 °C in the field, and transported under chain-of-custody to TestAmerica Laboratories, Inc. for analysis of TCL plus STARS List VOCs.

3.0 INVESTIGATION FINDINGS

Nine soil borings (SB-1 through SB-9) were advanced and six surface samples (SS-1 through SS-6) were collected on May 19, 2008 (see Figure 2). A total of 14 soil samples and one (1) groundwater sample were collected for analysis. Results are presented in Table 1 (soil) and Table 2 (groundwater). For comparison purposes, Table 1 presents recommended soil cleanup objectives (RSCOs) for each of the detected parameters as published in NYSDEC TAGM HWR-94-4046 and 6NYCRR Part 375 Restricted-Commercial soil cleanup objectives (SCOs). Table 2 results are compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) groundwater quality standards (GWQS). The analytical data package is presented in Appendix B.

3.1 Qualitative Soil Screening

Soil samples were screened via headspace for VOCs using a MiniRae 2000 PID. PID measurements ranged from <1 ppm (several locations) to approximately 58 ppm (SB-4). Refer to the Field Geoprobe Borehole Logs in Appendix A for soil classification for each sample interval, field observations, and PID measurements.

3.1 Site Hydrogeology

The geology at the Site is generally described as fill materials overlying reddish brown silty clay. The fill materials consist of concrete, brick, cinders, ash, wood and gravelly silt at depths ranging from 0.5 fbs to 4 fbs. Native materials consist of reddish-brown silty clay to depths up to 14 fbs. Bedrock was encountered at each location, ranging in depth from approximately 9 fbs to 14 fbs.

Groundwater was encountered at the soil/bedrock interface during boring installation. However, upon installation of the TMWs, appreciable groundwater (more than a few inches) was not present within TMW-2 through TMW-5. Groundwater within TMW-1 was observed at approximately 10 fbs.

Based on local topography, groundwater likely flows in a westerly direction toward the Niagara River/Black Rock Canal, which is located less than one-quarter mile west of the Site.

3.2 Soil Analytical Results

Six (6) surface soil samples (SS-1 through SS-6) were analyzed for RCRA metals plus cyanide. As indicated on Table 1, analytical data results indicate exceedances of arsenic, cadmium, chromium, lead, mercury, and cyanide. Of particular significance, lead was reported at a concentration of up to 5,390 milligrams per kilogram (mg/kg) or parts per million (ppm), cadmium was reported at a concentration of up to 140 ppm and chromium was reported at concentration of up to 2,790 ppm.

Five (5) subsurface soil samples (SB-1, SB-3 through SB-6) were analyzed for TCL plus STARS List VOCs, and RCRA metals plus cyanide. As indicated on Table 1, the analytical data results indicate no exceedances of detected VOCs above RSCOs. The analytical data results for metals indicate no exceedances of detected analytes, with the exception of chromium in all five subsurface samples. However, it should be noted that some of the chromium detections fall within typical eastern United States background concentrations.

At the request of our client, a composite soil sample was collected from the imported backfill piles that were brought to the Site sometime in May 2008. The pile sample was analyzed for TCL SVOCs, PCBs and RCRA metals. As indicated on Table 1, analytical results indicate no detections of PCBs or metals above RSCOs. SVOCs benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, chrysene, and dibenzo(a,h)anthracene were detected above TAGM 4046 RSCOs, with benzo(a)pyrene detected slightly above Part 375 Restricted-Commercial SCOs.

3.3 Groundwater Analytical Results

A discrete groundwater grab sample was collected from one temporary monitoring well (TMW-1). The groundwater sample was analyzed for TCL plus NYSDEC STARS List VOCs. As presented on Table 2, several VOC analytes were detected above the NYSDEC groundwater quality standards (GWQS) in TMW-1. These analytes include acetone, 1,1-dichloroethene (DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride (VC).

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the soil and groundwater investigation at the Site, TurnKey offers the following conclusions and recommendations:

- Elevated concentrations of metals, including chromium, cadmium, mercury, arsenic, lead and cyanide were identified in surface samples Site-wide above NYSDEC TAGM 4046 and/or Part 375 Restricted-Commercial SCOs. The surface samples were collected from discolored soil/fill that was observed in various areas of the Site in May 2008. Based on the field observations and the concentrations detected within the surface soil/fill samples, these materials would likely meet the definition of a grossly impacted material under 6NYCRR Part 375 and would require removal during future remedial work and/or redevelopment. Furthermore, based on the concentrations of cadmium (up to 140 ppm), lead (up to 5,390 ppm) and chromium (up to 2,790 ppm) detected, some of the material may potentially require handling as a hazardous waste.
- Elevated concentrations of VOCs in groundwater were detected in TMW-1 at concentration of approximately 7,400 micrograms per liter (ug/L) total VOCs. The VOCs detected were predominantly chlorinated compounds (PCE, TCE and their chemical breakdown products). This class of compounds is typically present at former metal plating facilities.
- Elevated concentrations of SVOCs in soil above TAGM RSCOs were identified in the imported backfill pile.
- Within a week after this investigation was completed, the current Site owner graded the Site with imported backfill. These activities have potentially commingled the impacted surface soil/fill on-Site with the imported backfill soils across the site.
- Based on the findings of this investigation, further investigation and remediation of the site appears warranted to address the impacts identified. Future investigation should include delineation of VOCs in groundwater and soil gas sampling for VOCs to assess potential off-Site vapor intrusion concerns, considering there are residential properties adjacent to the Site.
- TurnKey recommends that a soil/fill management plan (SFMP) be developed to provide uniform protocols for the proper handling of soil/fill during any future disturbances of surface/subsurface soils or groundwater at the Site.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of 1093 Group, LLC. The contents of this report are limited to information available at the time of the site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of 1093 Group, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

TABLES



TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
1095 NIAGARA STREET SITE
1093 GROUP, LLC.
BUFFALO, NEW YORK

Parameter ¹	Sample Locations												TAGM 4046 RSCOs (ppm) ³	Restricted SCOs Commercial (ppm) ⁴
	SB-1 8-9 fbgs	SB-3 8-9 fbgs	SB-4 6-9 fbgs	SB-5 8-11 fbgs	SB-6 12-13 fbgs	SS-1 0-0.5 fbgs	SS-2 0-0.5 fbgs	SS-3 0-0.5 fbgs	SS-4 0-0.5 fbgs	SS-5 0-0.5 fbgs	SS-6 0-0.5 fbgs	Pile (Comp.)		
TCL Volatile Organic Compounds (VOCs) + STARS (VOCs) - mg/kg ²														
Acetone	ND	0.036	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	500
cis-1,2-Dichloroethene	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		500
1,3,5-Trimethylbenzene	ND	ND	.003 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	190
n-Butylbenzene	ND	ND	.005 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	500
Total TCL VOCs + STARS VOCs	0	0.047	0.04	0	0	0	0	0	0	0	0	0		
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg ²														
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.27	50	500
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21	41	500
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6	50	500
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	.224 or MDL	5.6
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5	1.1	5.6
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45	1.1	56
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	50	500
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	.061 or MDL	1
1,1'-Biphenyl Biphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.024		
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.087	50	
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26		
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	0.4	56
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28	.014 or MDL	0.56
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17	6.2	
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	50	500
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28	50	500
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.93	3.2	5.6
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.071	36.4	
2-Methylphenol (o-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.029	.1 or MDL	
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.087	13	500
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	50	500
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	50	500
Total TCL SVOCs	0	0	0	0	0	0	0	0	0	0	0	17.848		
RCRA Metals - mg/kg														
Arsenic	2.6	2.9	2.7	2.6	2.2	5.4	3.6	46.8	11.1	5.1	6.6	6.1	3 - 12	16
Barium	66.8	97.7	70.4	52.6	59.5	28.9	28.6	59.9	96.4	46.6	48.1	74.9	15 - 600	400
Cadmium	ND	ND	0.32	ND	ND	140	20.1	41.8	26.8	45.9	43.2	0.3	0.1 - 1.0	9.3
Chromium	115	18.5	11.1	44.5	39.3	55.3	132	1220	2790	1500	75.2	18.9	1.5 - 40	400
Lead	11.6	15	11.2	10.4	9.9	48.2	182	5390	154	52.7	275	35.5	200 - 500	1000
Mercury	ND	0.028	ND	ND	ND	0.03	0.12	0.45	0.068	0.28	0.35	0.052	0.001 - 0.2	2.8
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 - 3.9	1500
Silver	ND	ND	ND	ND	ND	ND	6.3	12.7	ND	ND	1.6	ND		1500
Cyanide (Total)	NA	NA	NA	NA	NA	124	7.4	17	ND	327	6.4	NA		27

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.
3. Values per TAGM 4046 RSCO. Metals values presented are for the Eastern US background levels.
4. Values per NYSDEC 6NYCRR Part 375 Soil Cleanup Objectives (December 2006)

Definitions:

- ND = Parameter not detected above laboratory detection limit.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 = Indicates exceedance of TAGM 4046 RSCO
 = Indicates exceedance of Restricted Commercial SCO



TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1095 NIAGARA STREET SITE

1093 GROUP, LLC.
BUFFALO, NEW YORK

Parameter ¹	Sample Location	GWQS
	TMW-1	
<i>TCL Volatile Organic Compounds (VOCs) + STARS (VOCs) - ug/Kg</i>		
Acetone	64	50
1,1-Dichloroethene	17	5
cis-1,2-Dichloroethene	4300 D	5
trans-1,2-Dichloroethene	140	5
2-Hexanone	17 J	50
Methylene chloride	3 J	5
Tetrachloroethene	6	5
Toluene	2 J	5
Trichloroethene	2700 D	5
Vinyl chloride	110	2
p-Cymene (p-isopropyltoluene)	12	--
<i>Total TCL VOCs + STARS VOCs</i>	7371	

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

Definitions:

"--" = No GWQS available.

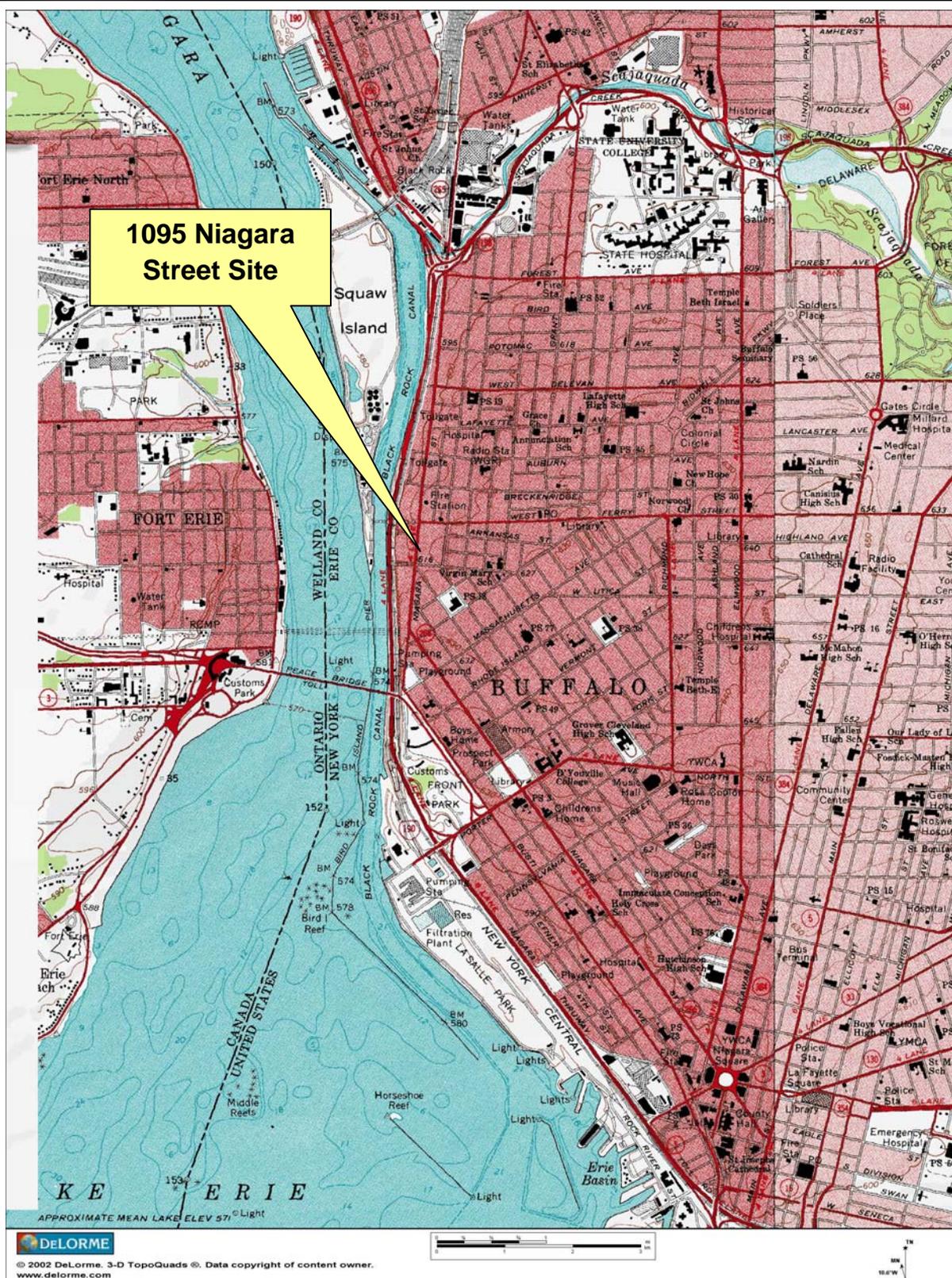
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

D = All compounds were identified in an analysis at the secondary dilution factor.

 = Indicates exceedance of GWQS

FIGURES

FIGURE 1



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0635

SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL SITE INVESTIGATION

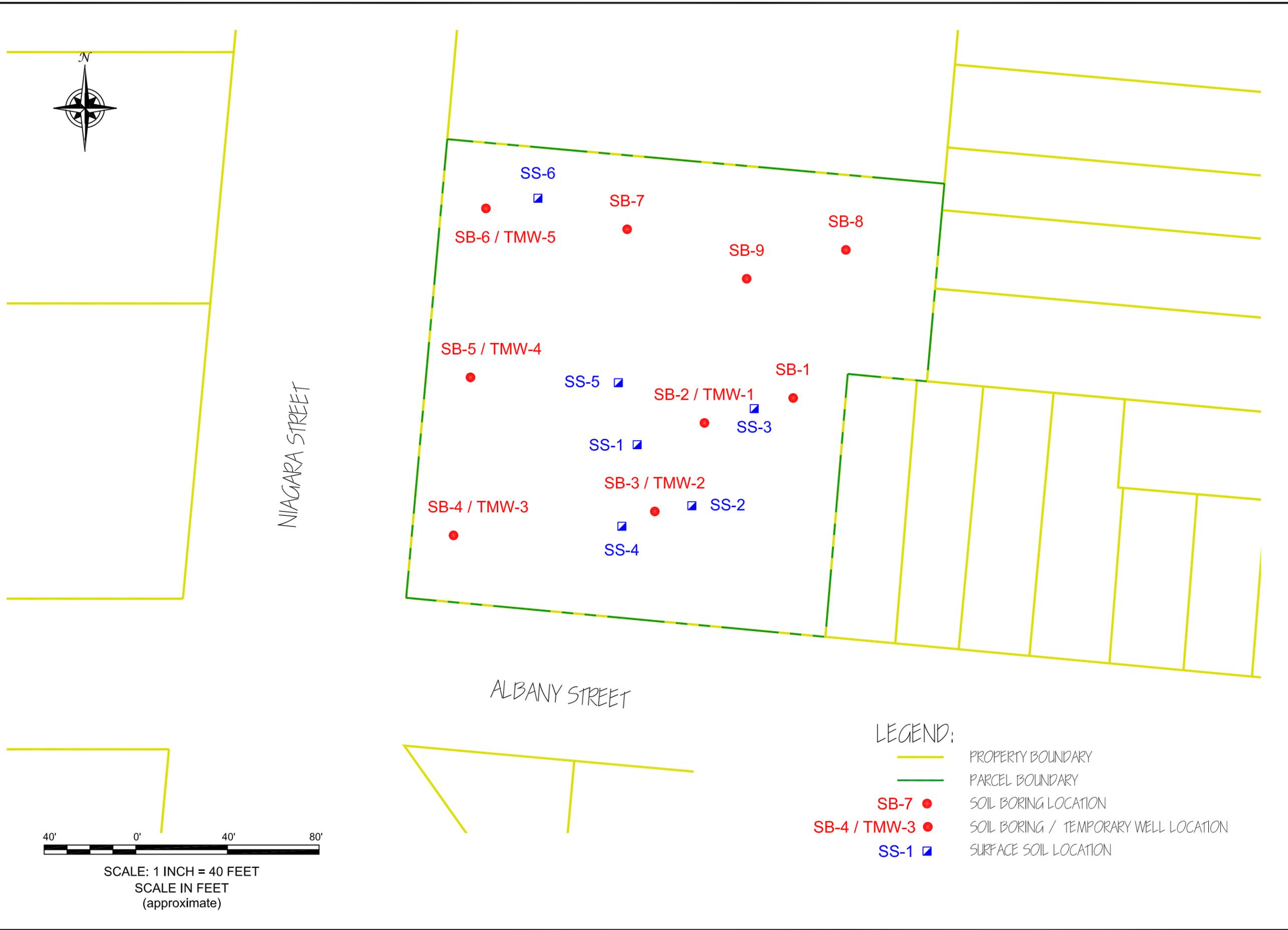
1095 NIAGARA STREET SITE
BUFFALO, NEW YORK

PROJECT NO.: 0136-012-100

DATE: JUNE 2008

DRAFTED BY: NTM

PREPARED FOR
1093 GROUP, INC



LEGEND:

-  PROPERTY BOUNDARY
-  PARCEL BOUNDARY
-  SOIL BORING LOCATION
-  SOIL BORING / TEMPORARY WELL LOCATION
-  SURFACE SOIL LOCATION

SITE PLAN

PHASE II SITE INVESTIGATION
 1095 NIAGARA STREET SITE
 BUFFALO, NEW YORK
 PREPARED FOR
 1093 GROUP, LLC



726 EXCHANGE STREET
 SUITE 624
 BUFFALO, NEW YORK 14210
 (716) 856-0635

JOB NO.: 0136-012-100

FIGURE 2

APPENDIX A

FIELD GEOPROBE BOREHOLE LOGS

Project No: 0136-012-100

Borehole Number: SB-1

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
726 Exchange Street, Suite 624
Buffalo, NY
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-1.0	0.0	Ground Surface							
	0.0	Silty Clay Brown, moist, Silty Clay with some fine Sand, dense	MC-1		3	0.2			
4.0									
	-6.0	Silty Sand Light Brown, moist, Silty fine Sand with little coarse Sand, dense	MC-2		4	0.1			
	-8.0	Silty Clay Brown, moist, Silty Clay with fine Sand, dense				0.7		SB-1	
9.0	-9.1	Refusal at 9.1 fbgs	MC-3		1				
	9.1								
14.0									
	-15.0								
	15.0								

Drilled By: TREC Environmental
Drill Rig Type: Trac Mounted Greoprobe
Drill Method: Direct Push

Hole Size: 2 inch
Stick-up: NA
Datum:

Drill Date(s): May 19, 2008

Sheet: 1 of 1

Project No: 0136-012-100

Borehole Number: SB-2

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
 726 Exchange Street, Suite 624
 Buffalo, NY
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-1.0	0.0	Ground Surface							
	0.0	Fill Fill with brick, concrete and ash							
	-0.5								
	0.5	Silty Clay Brown, moist, Silty Clay, dense, 0.1 ft thick gray layer starting at 8.5 fbgs							
			MC-1		4		1.7		
4.0			MC-2		4		10.1		
9.0	-9.1	Refusal at 9.1 fbgs							
	9.1								
			MC-3		1.1		2.1		
14.0									
	-15.0								
	15.0								

Drilled By: TREC Environmental
 Drill Rig Type: Trac Mounted Greoprobe
 Drill Method: Direct Push

Hole Size: 2 inch
 Stick-up: NA
 Datum:

Drill Date(s): May 19, 2008

Sheet: 1 of 1

Project No: 0136-012-100

Borehole Number: SB-3

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



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Buffalo, NY
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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 25 50	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-2.0	0.0	Ground Surface							
	0.0	Fill							
	-0.5	Fill with brick, concrete and ash							
	0.5	Silty Clay Brown, moist, Silty Clay, dense	MC-1		4	0.8			
3.0			MC-2		4	21.7			
8.0	-8.0	Silty Clay Brown, moist, Silty Clay with some fine and coarse Sand, dense				48.7		SB-3	
	-9.2	Refusal at 9.2 fbgs	MC-3		1.2				
13.0	9.2								

Drilled By: TREC Environmental
Drill Rig Type: Trac Mounted Greoprobe
Drill Method: Direct Push

Drill Date(s): May 19, 2008

Hole Size: 2 inch
Stick-up: NA
Datum:

Sheet: 1 of 2

Project No: 0136-012-100

Borehole Number: SB-4

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
 726 Exchange Street, Suite 624
 Buffalo, NY
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 50 100	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-2.0									
	0.0	Ground Surface							
	0.0	Fill Fill with brick, green colored concrete, slag and ash					0.1		
	-2.5		MC-1		3				
	2.5	Silty Clay Brown, moist, Silty Clay with some fine and coarse Sand, dense					0.2		
3.0							10.2		
			MC-2		4				
							57.6		
8.0							53.3		
			MC-3		2.5				
							28.6		
	-10.8	Refusal at 10.8 fbgs							
	10.8								
13.0									

Drilled By: TREC Environmental
 Drill Rig Type: Trac Mounted Greoprobe
 Drill Method: Direct Push

Hole Size: 2 inch
 Stick-up: NA
 Datum:

Drill Date(s): May 19, 2008

Sheet: 1 of 2

Project No: 0136-012-100

Borehole Number: SB-5

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
726 Exchange Street, Suite 624
Buffalo, NY
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-2.0									
	0.0 0.0	Ground Surface							
		Fill Fill with brick, cinders and ash					0.8		
	-1.8 1.8	Silty Clay Brown, moist, Silty Clay with fine Sand, soft	MC-1		2.5		1.1		
3.0							0.8		
	-5.0 5.0	Silty Clay Brown, moist, Silty Clay, dense	MC-2		4		0.2		
8.0									
			MC-3		3.7		2.1	SB-5	
	-11.7 11.7	Refusal at 10.8 fbgs							
13.0									

Drilled By: TREC Environmental
Drill Rig Type: Trac Mounted Greoprobe
Drill Method: Direct Push

Drill Date(s): May 19, 2008

Hole Size: 2 inch
Stick-up: NA
Datum:

Sheet: 1 of 2

Project No: 0136-012-100

Borehole Number: SB-6

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
 726 Exchange Street, Suite 624
 Buffalo, NY
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-2.0									
	0.0	Ground Surface							
	0.0	Fill Fill with brick, cinders and ash					0.1		
	-0.8	Silty Clay Brown, moist, Silty Clay with fine Sand, soft	MC-1		2.8				
	0.8								
3.0									
	-4.0	Silty Clay Brown, moist, Silty Clay with some fine and coarse Sand and trace gravel, dense	MC-2		4				
	4.0								
8.0									
			MC-3		4		0.6		
13.0								SB-6	
	-13.4	Refusal at 13.4 fbgs	MC-4		1.4				
	13.4								
	-16.0								
	16.0								

Drilled By: TREC Environmental
 Drill Rig Type: Trac Mounted Greoprobe
 Drill Method: Direct Push

Hole Size: 2 inch
 Stick-up: NA
 Datum:

Drill Date(s): May 19, 2008

Sheet: 1 of 1

Project No: 0136-012-100

Borehole Number: SB-7

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
 726 Exchange Street, Suite 624
 Buffalo, NY
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface Fill Fill with brick, concrete, cinders, ash and some fine Sand							
			MC-1		2.2		0.8		
	-4.0 4.0	Silty Clay Brown, moist, Silty Clay with some fine and coarse Sand, dense							
5.0			MC-2		4		0.6		
10.0			MC-3		2.7		8.1		
			MC-4		2.8		6.1		
	-13.8 13.8	Refusal at 13.8 fbgs							
15.0	-15.0 15.0								

Drilled By: TREC Environmental
 Drill Rig Type: Trac Mounted Greoprobe
 Drill Method: Direct Push

Hole Size: 2 inch
 Stick-up: NA
 Datum:

Drill Date(s): May 19, 2008

Sheet: 1 of 1

Project No: 0136-012-100

Borehole Number: SB-8

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
726 Exchange Street, Suite 624
Buffalo, NY
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		Fill Fill with brick, cinders and slag							
	-1.3 1.3	Silty Clay Brown, moist, Silty Clay with some fine and coarse Sand, dense	MC-1		2.2	0.3			
5.0			MC-2		4	0.1			
			MC-3		2.7				
	-8.8 8.8	Refusal at 8.8 fbgs							
10.0									
15.0	-15.0 15.0								

Drilled By: TREC Environmental
Drill Rig Type: Trac Mounted Greoprobe
Drill Method: Direct Push

Drill Date(s): May 19, 2008

Hole Size: 2 inch
Stick-up: NA
Datum:

Sheet: 1 of 1

Project No: 0136-012-100

Borehole Number: SB-9

Project: 1095 Niagara Street Site

Client: 1093 Group, LLC

Logged By: NM

Site Location: 1095 Niagara Street

Checked By:



TurnKey Environmental Restoration, LLC
 726 Exchange Street, Suite 624
 Buffalo, NY
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Fill Fill with brick, cinders and slag							
	-1.0	Silty Clay Brown, moist, Silty Clay with some fine Sand and little coarse Sand, dense, green stained fill material at 6.5 fbgs	MC-1		4	0.2			
	1.0								
5.0			MC-2		3	0.6			
			MC-3		2.6	0.8			
10.0	-9.6	Refusal at 9.6 fbgs							
	9.6								
15.0	-15.0								
	15.0								

Drilled By: TREC Environmental
 Drill Rig Type: Trac Mounted Greoprobe
 Drill Method: Direct Push

Hole Size: 2 inch
 Stick-up: NA
 Datum:

Drill Date(s): May 19, 2008

Sheet: 1 of 1

APPENDIX B

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

Date: 06/04/2008
Time: 15:50:17

Benchmark
1095 Niagara St.
METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		SB-3		SB-4					
Job No	Lab ID	A08-5742	A8574208	A08-5742	A8574209				
Sample Date		05/19/2008		05/19/2008					
Analyte	Units	Sample Value	Reporting Limit						
Acetone	UG/KG	36	27	32	28	NA		NA	
Benzene	UG/KG	ND	5	ND	6	NA		NA	
Bromodichloromethane	UG/KG	ND	5	ND	6	NA		NA	
Bromoform	UG/KG	ND	5	ND	6	NA		NA	
Bromomethane	UG/KG	ND	5	ND	6	NA		NA	
2-Butanone	UG/KG	ND	27	ND	28	NA		NA	
Carbon Disulfide	UG/KG	ND	5	ND	6	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	6	NA		NA	
Chlorobenzene	UG/KG	ND	5	ND	6	NA		NA	
Chloroethane	UG/KG	ND	5	ND	6	NA		NA	
Chloroform	UG/KG	ND	5	ND	6	NA		NA	
Chloromethane	UG/KG	ND	5	ND	6	NA		NA	
Cyclohexane	UG/KG	ND	5	ND	6	NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	6	NA		NA	
Dibromochloromethane	UG/KG	ND	5	ND	6	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	6	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	6	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	6	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	6	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	6	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	6	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	6	NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	ND	6	NA		NA	
cis-1,2-Dichloroethene	UG/KG	11	5	ND	6	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	6	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	6	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	6	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	6	NA		NA	
Ethylbenzene	UG/KG	ND	5	ND	6	NA		NA	
2-Hexanone	UG/KG	ND	27	ND	28	NA		NA	
Isopropylbenzene	UG/KG	ND	5	ND	6	NA		NA	
Methyl acetate	UG/KG	ND	5	ND	6	NA		NA	
Methylcyclohexane	UG/KG	ND	5	ND	6	NA		NA	
Methylene chloride	UG/KG	ND	5	ND	6	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	27	ND	28	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	ND	6	NA		NA	
Styrene	UG/KG	ND	5	ND	6	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	6	NA		NA	
Tetrachloroethene	UG/KG	ND	5	ND	6	NA		NA	
Toluene	UG/KG	ND	5	ND	6	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	6	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	6	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	6	NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
Time: 15:50:17

Benchmark
1095 Niagara St.
METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		SB-3		SB-4					
Job No	Lab ID	A08-5742	A8574208	A08-5742	A8574209				
Sample Date		05/19/2008		05/19/2008					
Analyte	Units	Sample Value	Reporting Limit						
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	ND	5	ND	6	NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	6	NA		NA	
Trichloroethene	UG/KG	ND	5	ND	6	NA		NA	
Vinyl chloride	UG/KG	ND	11	ND	11	NA		NA	
Total Xylenes	UG/KG	ND	16	ND	17	NA		NA	
o-Xylene	UG/KG	ND	5	ND	6	NA		NA	
m/p-Xylenes	UG/KG	ND	11	ND	11	NA		NA	
n-Propylbenzene	UG/KG	ND	5	ND	6	NA		NA	
p-Cymene	UG/KG	ND	5	ND	6	NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	ND	6	NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	3 J	6	NA		NA	
n-Butylbenzene	UG/KG	ND	5	5 J	6	NA		NA	
sec-Butylbenzene	UG/KG	ND	5	ND	6	NA		NA	
tert-Butylbenzene	UG/KG	ND	5	ND	6	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	82	50-200	80	50-200	NA		NA	
1,4-Difluorobenzene	%	81	50-200	78	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	81	50-200	83	50-200	NA		NA	
Toluene-D8	%	108	71-125	104	71-125	NA		NA	
p-Bromofluorobenzene	%	104	72-126	106	72-126	NA		NA	
1,2-Dichloroethane-D4	%	98	61-136	101	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
Time: 15:50:17

Benchmark
1095 Niagara St.
METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		TMW-1		TMW-1					
Job No	Lab ID	A08-5742	A8574217	A08-5742	A8574217DL				
Sample Date		05/20/2008		05/20/2008					
Analyte	Units	Sample Value	Reporting Limit						
Acetone	UG/L	64	25	ND	400	NA		NA	
Benzene	UG/L	ND	5	ND	80	NA		NA	
Bromodichloromethane	UG/L	ND	5	ND	80	NA		NA	
Bromoform	UG/L	ND	5	ND	80	NA		NA	
Bromomethane	UG/L	ND	5	ND	80	NA		NA	
2-Butanone	UG/L	ND	25	ND	400	NA		NA	
Carbon Disulfide	UG/L	ND	5	ND	80	NA		NA	
Carbon Tetrachloride	UG/L	ND	5	ND	80	NA		NA	
Chlorobenzene	UG/L	ND	5	ND	80	NA		NA	
Chloroethane	UG/L	ND	5	ND	80	NA		NA	
Chloroform	UG/L	ND	5	ND	80	NA		NA	
Chloromethane	UG/L	ND	5	ND	80	NA		NA	
Cyclohexane	UG/L	ND	5	ND	80	NA		NA	
1,2-Dibromoethane	UG/L	ND	5	ND	80	NA		NA	
Dibromochloromethane	UG/L	ND	5	ND	80	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5	ND	80	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5	ND	80	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5	ND	80	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5	ND	80	NA		NA	
Dichlorodifluoromethane	UG/L	ND	5	ND	80	NA		NA	
1,1-Dichloroethane	UG/L	ND	5	ND	80	NA		NA	
1,2-Dichloroethane	UG/L	ND	5	ND	80	NA		NA	
1,1-Dichloroethene	UG/L	17	5	ND	80	NA		NA	
cis-1,2-Dichloroethene	UG/L	5700 E	5	4300 D	80	NA		NA	
trans-1,2-Dichloroethene	UG/L	140	5	130 D	80	NA		NA	
1,2-Dichloropropane	UG/L	ND	5	ND	80	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5	ND	80	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5	ND	80	NA		NA	
Ethylbenzene	UG/L	ND	5	ND	80	NA		NA	
2-Hexanone	UG/L	17 J	25	ND	400	NA		NA	
Isopropylbenzene	UG/L	ND	5	ND	80	NA		NA	
Methyl acetate	UG/L	ND	5	ND	80	NA		NA	
Methylcyclohexane	UG/L	ND	5	ND	80	NA		NA	
Methylene chloride	UG/L	3 J	5	ND	80	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	25	ND	400	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	5	ND	80	NA		NA	
Styrene	UG/L	ND	5	ND	80	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5	ND	80	NA		NA	
Tetrachloroethene	UG/L	6	5	ND	80	NA		NA	
Toluene	UG/L	2 J	5	ND	80	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5	ND	80	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5	ND	80	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5	ND	80	NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
Time: 15:50:17

Benchmark
1095 Niagara St.
METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		TMW-1		TMW-1					
Job No		A08-5742		A08-5742					
Lab ID		A8574217		A8574217DL					
Sample Date		05/20/2008		05/20/2008					
Analyte	Units	Sample Value	Reporting Limit						
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	ND	5	ND	80	NA		NA	
Trichlorofluoromethane	UG/L	ND	5	ND	80	NA		NA	
Trichloroethene	UG/L	3900 E	5	2700 D	80	NA		NA	
Vinyl chloride	UG/L	110	5	76 DJ	80	NA		NA	
Total Xylenes	UG/L	ND	15	ND	240	NA		NA	
o-Xylene	UG/L	ND	5	ND	80	NA		NA	
m/p-Xylenes	UG/L	ND	10	ND	160	NA		NA	
n-Propylbenzene	UG/L	ND	5	ND	80	NA		NA	
p-Cymene	UG/L	12	5	ND	80	NA		NA	
1,2,4-Trimethylbenzene	UG/L	ND	5	ND	80	NA		NA	
1,3,5-Trimethylbenzene	UG/L	ND	5	ND	80	NA		NA	
n-Butylbenzene	UG/L	ND	5	ND	80	NA		NA	
sec-Butylbenzene	UG/L	ND	5	ND	80	NA		NA	
tert-Butylbenzene	UG/L	ND	5	ND	80	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	91	50-200	86	50-200	NA		NA	
1,4-Difluorobenzene	%	93	50-200	91	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	83	50-200	88	50-200	NA		NA	
Toluene-D8	%	110	71-126	112	71-126	NA		NA	
p-Bromofluorobenzene	%	102	73-120	108	73-120	NA		NA	
1,2-Dichloroethane-D4	%	109	66-137	106	66-137	NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
Time: 15:50:17

Benchmark
1095 Niagara St.
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN1246

Client ID Job No Sample Date		Lab ID		PITE-COMP A08-5742 05/19/2008		A8574212			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	270	180	NA		NA		NA	
Acenaphthylene	UG/KG	210	180	NA		NA		NA	
Acetophenone	UG/KG	ND	180	NA		NA		NA	
Anthracene	UG/KG	600	180	NA		NA		NA	
Atrazine	UG/KG	ND	180	NA		NA		NA	
Benzaldehyde	UG/KG	ND	180	NA		NA		NA	
Benzo(a)anthracene	UG/KG	1400	180	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	1500	180	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	450	180	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	1000	180	NA		NA		NA	
Benzo(a)pyrene	UG/KG	1200	180	NA		NA		NA	
Biphenyl	UG/KG	24 J	180	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	180	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/KG	ND	180	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	180	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	87 J	180	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/KG	ND	180	NA		NA		NA	
Butyl benzyl phthalate	UG/KG	ND	180	NA		NA		NA	
Caprolactam	UG/KG	ND	180	NA		NA		NA	
4-Chloroaniline	UG/KG	ND	180	NA		NA		NA	
4-Chloro-3-methylphenol	UG/KG	ND	180	NA		NA		NA	
2-Chloronaphthalene	UG/KG	ND	180	NA		NA		NA	
2-Chlorophenol	UG/KG	ND	180	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	180	NA		NA		NA	
Carbazole	UG/KG	260	180	NA		NA		NA	
Chrysene	UG/KG	1400	180	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	280	180	NA		NA		NA	
Dibenzofuran	UG/KG	170 J	180	NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	180	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/KG	ND	180	NA		NA		NA	
2,4-Dichlorophenol	UG/KG	ND	180	NA		NA		NA	
Diethyl phthalate	UG/KG	ND	180	NA		NA		NA	
2,4-Dimethylphenol	UG/KG	ND	180	NA		NA		NA	
Dimethyl phthalate	UG/KG	ND	180	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	360	NA		NA		NA	
2,4-Dinitrophenol	UG/KG	ND	360	NA		NA		NA	
2,4-Dinitrotoluene	UG/KG	ND	180	NA		NA		NA	
2,6-Dinitrotoluene	UG/KG	ND	180	NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	180	NA		NA		NA	
Fluoranthene	UG/KG	2900	180	NA		NA		NA	
Fluorene	UG/KG	280	180	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	180	NA		NA		NA	
Hexachlorobutadiene	UG/KG	ND	180	NA		NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
Time: 15:50:17

Benchmark
1095 Niagara St.
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN1246

Client ID Job No Sample Date		Lab ID		PITE-COMP A08-5742 05/19/2008		A8574212			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/KG	ND	180	NA		NA		NA	
Hexachloroethane	UG/KG	ND	180	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	930	180	NA		NA		NA	
Isophorone	UG/KG	ND	180	NA		NA		NA	
2-Methylnaphthalene	UG/KG	71 J	180	NA		NA		NA	
2-Methylphenol	UG/KG	29 J	180	NA		NA		NA	
4-Methylphenol	UG/KG	ND	180	NA		NA		NA	
Naphthalene	UG/KG	87 J	180	NA		NA		NA	
2-Nitroaniline	UG/KG	ND	360	NA		NA		NA	
3-Nitroaniline	UG/KG	ND	360	NA		NA		NA	
4-Nitroaniline	UG/KG	ND	360	NA		NA		NA	
Nitrobenzene	UG/KG	ND	180	NA		NA		NA	
2-Nitrophenol	UG/KG	ND	180	NA		NA		NA	
4-Nitrophenol	UG/KG	ND	360	NA		NA		NA	
N-nitrosodiphenylamine	UG/KG	ND	180	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	180	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	360	NA		NA		NA	
Phenanthrene	UG/KG	2300	180	NA		NA		NA	
Phenol	UG/KG	ND	180	NA		NA		NA	
Pyrene	UG/KG	2400	180	NA		NA		NA	
2,4,5-Trichlorophenol	UG/KG	ND	180	NA		NA		NA	
2,4,6-Trichlorophenol	UG/KG	ND	180	NA		NA		NA	
-----IS/SURROGATE(S)-----									
1,4-Dichlorobenzene-D4	%	122	50-200	NA		NA		NA	
Naphthalene-D8	%	122	50-200	NA		NA		NA	
Acenaphthene-D10	%	110	50-200	NA		NA		NA	
Phenanthrene-D10	%	106	50-200	NA		NA		NA	
Chrysene-D12	%	112	50-200	NA		NA		NA	
Perylene-D12	%	144	50-200	NA		NA		NA	
Nitrobenzene-D5	%	69	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	78	43-120	NA		NA		NA	
p-Terphenyl-d14	%	81	51-125	NA		NA		NA	
Phenol-D5	%	70	36-120	NA		NA		NA	
2-Fluorophenol	%	60	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	88	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
 Time: 15:50:17

Benchmark
 1095 Niagara St.
 METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN1246

Client ID Job No Sample Date		Lab ID	PITE-COMP A08-5742 05/19/2008		A8574212					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Aroclor 1016	UG/KG	ND	18	NA		NA		NA		
Aroclor 1221	UG/KG	ND	18	NA		NA		NA		
Aroclor 1232	UG/KG	ND	18	NA		NA		NA		
Aroclor 1242	UG/KG	ND	18	NA		NA		NA		
Aroclor 1248	UG/KG	ND	18	NA		NA		NA		
Aroclor 1254	UG/KG	ND	18	NA		NA		NA		
Aroclor 1260	UG/KG	ND	18	NA		NA		NA		
SURROGATE(S)										
Tetrachloro-m-xylene	%	71	35-134	NA		NA		NA		
Decachlorobiphenyl	%	83	34-148	NA		NA		NA		

NA = Not Applicable ND = Not Detected

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Date: 06/04/2008
Time: 15:49:20

Benchmark
1095 Niagara St.
BENCHMARK - SW8463 RCRA METALS - S

Rept: AN1246

Client ID Job No Sample Date		Lab ID		PITE-COMP A08-5742 05/19/2008		A8574212		SB-1 A08-5742 05/19/2008		A8574207		SB-3 A08-5742 05/19/2008		A8574208		SB-4 A08-5742 05/19/2008		A8574209	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	6.1	2.4	2.6	2.4	2.9	2.2	2.7	2.4	74.9	0.59	66.8	0.59	97.7	0.54	70.4	0.61	0.30	0.24
Barium - Total	MG/KG	74.9	0.59	66.8	0.59	97.7	0.54	70.4	0.61	0.30	0.24	ND	0.22	0.32	0.24	18.9	0.59	11.1	0.61
Cadmium - Total	MG/KG	0.30	0.24	ND	0.22	0.32	0.24	11.1	0.61	18.9	0.59	11.6	1.2	15.0	1.1	35.5	1.2	11.2	1.2
Chromium - Total	MG/KG	18.9	0.59	11.6	1.2	15.0	1.1	11.2	1.2	35.5	1.2	ND	0.023	0.028	0.022	0.052	0.021	ND	0.021
Lead - Total	MG/KG	35.5	1.2	11.6	1.2	15.0	1.1	11.2	1.2	0.052	0.021	ND	0.023	0.028	0.022	ND	4.7	ND	4.9
Mercury - Total	MG/KG	0.052	0.021	ND	0.023	0.028	0.022	ND	0.021	ND	4.7	ND	4.3	ND	4.9	ND	0.59	0.59	0.59
Selenium - Total	MG/KG	ND	4.7	ND	4.7	ND	4.3	ND	4.9	ND	0.59	ND	0.54	ND	0.61	ND	ND	ND	0.61
Silver - Total	MG/KG	ND	0.59	ND	0.59	ND	0.54	ND	0.61	ND	0.59	ND	0.54	ND	0.61	ND	ND	ND	0.61

Client ID Job No Sample Date		Lab ID		SB-5 A08-5742 05/19/2008		A8574210		SB-6 A08-5742 05/19/2008		A8574211		SS-1 A08-5742 05/19/2008		A8574201		SS-2 A08-5742 05/19/2008		A8574202	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	2.6	2.4	2.2	2.2	5.4	2.2	3.6	2.4	52.6	0.61	59.5	0.55	28.9	0.54	28.6	0.60	ND	0.24
Barium - Total	MG/KG	52.6	0.61	59.5	0.55	28.9	0.54	28.6	0.60	ND	0.24	140	0.22	20.1	0.24	44.5	0.61	39.3	0.55
Cadmium - Total	MG/KG	ND	0.24	140	0.22	20.1	0.24	132	0.60	44.5	0.61	39.3	0.55	55.3	0.54	10.4	1.2	9.9	1.1
Chromium - Total	MG/KG	44.5	0.61	39.3	0.55	55.3	0.54	132	0.60	10.4	1.2	9.9	1.1	48.2	1.1	182	1.2	182	1.2
Lead - Total	MG/KG	10.4	1.2	9.9	1.1	48.2	1.1	182	1.2	ND	0.021	ND	0.023	0.030	0.022	0.12	0.022	ND	0.022
Mercury - Total	MG/KG	ND	0.021	ND	0.023	0.030	0.022	0.12	0.022	ND	4.9	ND	4.4	ND	4.4	ND	4.8	ND	4.8
Selenium - Total	MG/KG	ND	4.9	ND	4.4	ND	4.4	ND	4.8	ND	0.61	ND	0.55	ND	0.54	6.3	0.60	ND	0.60
Silver - Total	MG/KG	ND	0.61	ND	0.55	ND	0.54	6.3	0.60	ND	0.61	ND	0.55	ND	0.54	6.3	0.60	ND	0.60

NA = Not Applicable ND = Not Detected

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Date: 06/04/2008
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Benchmark
 1095 Niagara St.
 BENCHMARK - SW8463 RCRA METALS - S

Rept: AN1246

Client ID		SS-3		SS-4		SS-5		SS-6	
Job No	Lab ID	A08-5742	A8574203	A08-5742	A8574204	A08-5742	A8574205	A08-5742	A8574206
Sample Date		05/19/2008		05/19/2008		05/19/2008		05/19/2008	
Analyte	Units	Sample Value	Reporting Limit						
Arsenic - Total	MG/KG	46.8	2.6	11.1	3.4	5.1	2.4	6.6	2.3
Barium - Total	MG/KG	59.9	0.65	96.4	0.86	46.6	0.60	48.1	0.57
Cadmium - Total	MG/KG	41.8	0.26	26.8	0.34	45.9	0.24	43.2	0.23
Chromium - Total	MG/KG	1220	0.65	2790	0.86	1500	0.60	75.2	0.57
Lead - Total	MG/KG	5390	1.3	154	1.7	52.7	1.2	275	1.1
Mercury - Total	MG/KG	0.45	0.025	0.068	0.036	0.28	0.023	0.35	0.023
Selenium - Total	MG/KG	ND	5.2	ND	6.9	ND	4.8	ND	4.6
Silver - Total	MG/KG	12.7	0.65	ND	0.86	ND	0.60	1.6	0.57

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 06/04/2008
 Time: 15:49:20

Benchmark
 1095 Niagara St.
 WET CHEMISTRY ANALYSIS

Rept: AN1246

Client ID Job No Sample Date		Lab ID		SS-1 A08-5742 05/19/2008		A8574201		SS-2 A08-5742 05/19/2008		A8574202		SS-3 A08-5742 05/19/2008		A8574203		SS-4 A08-5742 05/19/2008		A8574204	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit		
Cyanide - Total	MG/KG	124	4.9	7.4	1.0	17.0	1.2	ND	1.6										

Client ID Job No Sample Date		Lab ID		SS-5 A08-5742 05/19/2008		A8574205		SS-6 A08-5742 05/19/2008		A8574206					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/KG	327	10.4	6.4	0.95	NA		NA							

NA = Not Applicable ND = Not Detected

TestAmerica Lab