



PRECISION
ENVIRONMENTAL SERVICES, INC.

831 RT. 67, LOT 28
BALLSTON SPA, NY 12020
TEL: 518.885.4399
FAX: 518.885.4416

STREAM SEDIMENT SAMPLING REPORT

**Former Adirondack Steel
191 Watervliet-Shaker Road
Colonie, New York 12205
NYS DEC Site No.: 401039**

Report Completed:
June 2008

Prepared For:

**Mr. Ian Beilby
New York State Department of
Environmental Conservation – Central
625 Broadway
Albany, NY 12211**

Prepared By:

PRECISION ENVIRONMENTAL SERVICES, INC.
831 NYS Route 67, Lot 28C
Ballston Spa, New York 12020

1.0 Introduction:

Precision Environmental Services, Inc. (PES) has prepared this site investigation report to document the findings of the limited investigative work performed at the former Adirondack Steel site; see Figure 1 – Site Location map for site location details. The work described within this report was initiated pursuant to a June 3, 2006 Call Out (directive) from the New York State Department of Environmental Conservation (NYSDEC). Work tasks completed and documented within this report include sampling of sediments in a stream identified as the Northern Drainage ditch.

1.1 Background:

Please Note: *The following discussion is limited to PES's findings as they relate solely to the limits of the authorized scope of work. Specifically, information presented will address only those areas of the site where PES performed stream sediment investigative work (i.e. – stream sediment sampling locations) see Figure 2 for sampling site details.*

According to limited information provided to PES from the NYSDEC, the site was historically utilized as a steel production facility. Following steel production, the site has been utilized for the storage of miscellaneous equipment as well as commercial and household trash and debris. During the history of the site, it was reported that a transformer released an unknown quantity of poly-chlorinated-biphenyls (PCBs) onto the subject site. On May 29, 2008, the NYSDEC and PES visited the site to assess current conditions.

1.2 Site Description:

The subject site is located at 191 Watervliet-Shaker Road, in the City of Colonie, Albany County, New York; see Figure 1 – Site Location map for site location details. Several single- and multi-story structures currently exist on site. Most of the structures are vacant but were historically utilized as warehouses, office buildings, and machine shops. The majority of the buildings onsite have been deemed unsafe for entry. The property is situated in a mixed commercial/residential area. In general, the land surfaces at the site are covered with asphalt, gravel, and concrete. The site and the surrounding area have an apparent topographic slope to the east-southeast towards the Hudson River. While operational the site was serviced by municipal water and sewer systems.

The Northern Drainage ditch is located along the northern boundary of the manufacturing portion of the site and flow between that area and an adjacent landfill located to the North. The ditch flows west to east into a drainage system running parallel to a Union Pacific Railroad right-of-way, eventually flowing into the City of Watervliet's sewer system. The Northern Drainage Ditch is located in dense overgrowth location with limited access to drainage banks and to the stream bed. A significant amount of trash and debris, including but not limited to large steel containers, tires, and various plastic containers were observed in the Northern Drainage Ditch.

2.0 Northern Drainage Ditch Sediment Sampling:

As directed by the NYSDEC, PES was contracted to investigate potential PCB impacts to the Northern Drainage Ditch. Initial investigative work was completed in June 6, 2008. The investigative effort was undertaken to create data collection points within the Northern Drainage Ditch. PES collected sediment samples according to sampling locations selected by the

NYSDEC and according to sampling location accessibility based on field conditions encountered. The Northern Drainage Ditch linear extent was measured at a total distance of four-hundred twenty-six feet. The total length was measured from the intersection of the Northern Drainage Ditch and the drainage system running parallel to the railroad right-of-way to a concrete culvert located west of the intersection. The fieldwork consisted of the collection of eight (8), two-inch diameter stream sediment cores and the acquisition of eight (8) stream sediment samples at four (4) sediment sampling locations within the ditch. The sediment sample locations were measured with a 300-foot field tape for accurate definition of sample location. The purpose of the acquired stream sediment samples were to aid in determining potential PCB contaminant occurrence within the Northern Drainage Ditch. The locations of investigative data collection points in relation to onsite structures are depicted on Figure 2 – Site Map.

2.1 Stream Sediment Sampling:

Sediment soils were collected in PES's manually operated stainless steel, sediment sampler. The equipment retrieves relatively undisturbed sediment samples across a two-foot stratigraphic interval. Sediment cores were advanced to depths ranging from sixteen to eighteen inches below existing stream bed. The sediment cores were obtained using plastic sample liners. Acquired samples were classified with respect to soil type. Decontamination procedures were performed on all soil sampling equipment prior to and between each sample acquisition.

As discussed with the NYSDEC, sediment samples were collected for laboratory analysis from three (3) stratigraphic horizons at four (4) locations within the Northern Drainage Ditch stream bed: "surface, one-foot below stream bed grade, and bottom". Sediment acquired for the "surface samples" were to be obtained at a depth of zero to six inches below the stream bed grade. Sediment acquired for the "one-foot below stream bed grade" were to be collected at a depth of twelve to sixteen inches below the stream bed grade. Sediment acquired for the "bottom samples" were to be obtained at a depth of twenty-four to thirty inches below the stream bed grade or the deepest point in the event that the desired penetration was unachievable. However, due to encountered field conditions, the sediment sampler was unable to achieve a depth greater than 18-inches below the existing stream bed grade at each of the four locations. Thus, a "surface sample" and a "one-foot below stream bed grade" were obtained at each of the four locations.

Sediment soil sample locations were based primarily on perceived accessibility and availability of sediments. All secured sediment samples were obtained by aseptic techniques to prevent cross-contamination, labeled, and placed on ice storage for subsequent submission under chain of custody to Adirondack Environmental Services located in Albany, NY for analysis via EPA method 8082 for poly-chlorinated biphenyls (PCBs) and Total Organic Carbon analysis. See Table 1 – Summary of Stream Sediment Analytical Results; Attachment A – Laboratory Analytical Reports for details.

3.0 Geologic/Hydrogeologic Findings:

3.1 Regional Geology:

The subject property is located within the Hudson Mohawk Lowland Physiographic Province. The overburden soils in the surrounding area have been characterized as Lacustrine Silt and Clay, which are composed of generally laminated silt and clay (Cadwell et al, 1987). The bedrock

geology identified in the vicinity of the property is the Normanskill Shale, which is of Middle Ordovician origin and consists of minor mudstone, sandstone (Fisher et al, 1970).

3.2 Site Geology:

Subsurface soils were investigated at the site by utilizing the sediment sampler as previously discussed. The depth of overburden exploration reached 18-inches below existing stream bed grade. Soils encountered at the site were generally composed of black, gray/brown coarse to fine sand and silt.

3.3 Surface Water:

The Northern Drainage Ditch was observed to have an average water depth to stream bed bottom of two-feet at each of the sample locations and was observed to have a relatively moderate flow. Surface water flows from west to east into the drainage system located parallel to the railroad right-of-way.

3.4 Site Hydrogeology:

Groundwater was not encountered during the sediment sampling event.

4.0 Discussion/Conclusions:

Detectable PCB concentrations, greater than the calculated site specific sediment criterion, were documented for all eight stream sediment samples taken in the Northern Drainage Ditch. As demonstrated in Attachment A – Laboratory Analytical Report, out of the nine (9) Aroclor species reported (Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268), only one species (Aroclor 1260) was detected at concentrations above the laboratory's minimum detection limits. It is important to note the laboratory minimum detection limits for each sediment sample analyzed via method EPA 8082 varied for each individual sediment sample. Also, the laboratory minimum detection limits were set relatively high.

The laboratory results from the surface and subsurface soil samples collected during the investigation indicate that elevated levels of PCB contaminants exist at the site above the site specific sediment criterion calculated using the guidelines published in the NYSDEC Division of Fish, Wildlife, and Marine Resources - Technical Guidance for Screening Contaminated Sediments, 1999 (Guidance Document). Site specific sediment criterion was calculated using a Sediment Criteria Human Health Bioaccumulation of $0.0008 \mu\text{g/gOC}$. The partition coefficient for PCB was cited in the Guidance Document – Section IV, Part C: "Derivation of Sediment Criteria Using Equilibrium Partitioning", which is $10^{6.14} \text{ l/kg}$. The Sediment Criteria Human Health Bioaccumulation was multiplied with the Partition for PCB and a 1 kg/1,000gOC conversion factor to produce an Organic Carbon Normalized PCB Sediment Criterion of $1.1043 \mu\text{g/gOC}$. Next, the Organic Carbon Normalized PCB Sediment Criterion was multiplied with the Total Organic Carbon reported in Attachment A – Laboratory Analysis Report to produce the Site Specific Sediment Criterion, which was reported as $\mu\text{g PCB/kg sediment}$. Finally, the concentrations of Aroclor 1260 for the eight (8) sediment samples submitted for laboratory analysis were compared to the individually calculated Site Specific Sediment Criterion .

By comparison, all eight (8) stream sediment samples are in non-compliance of the Site Specific Sediment Criterion. As shown in Table 2 – Summary of Site Specific Sediment Criterion, sediment sample “Site – 1 Surface” has a Site Specific Sediment Criterion of 11.374µg PCB/kg sediment and a reported Aroclor concentration of 2,200µg/kg. Sediment sample “Site1 – One Foot” has a Site Specific Sediment Criterion of 11.816 µg PCB/kg sediment and a reported Aroclor 1260 concentration of 37,000µg/kg. Sediment sample “Site 2 – Surface” has a Site Specific Sediment Criterion of 25.730µg PCB/kg sediment and a reported Aroclor 1260 concentration of 1,800µg/kg. Sediment sample “Site 2 – One Foot” has a Site Specific Sediment Criterion of 18.111µg PCB/kg sediment and a reported Aroclor 1260 concentration of 1,600µg/kg. Sediment sample “Site 3 – Surface” has a Site Specific Sediment Criterion of 15.902µg PCB/kg sediment and a reported Aroclor 1260 concentration of 1,200µg/kg. Sediment sample “Site 3 – One Foot” has a Site Specific Sediment Criterion of 13.252µg PCB/kg sediment and a reported Aroclor 1260 concentration of 4,400µg/kg. Sediment sample “Site 4 – Surface” has a Site Specific Sediment Criterion of 11.264µg PCB/kg sediment and a reported Aroclor 1260 concentration of 760µg/kg. Sediment sample “Site 4 – One Foot” has a Site Specific Sediment Criterion of 15.129µg PCB/kg sediment and a reported concentration of Aroclor 1260 of 800µg/kg.

It is important to note that according to the Guidance Document – Section IV, Part D, Subpart 3, “EP-based criteria should only be derived for sediments with organic carbon fractions between approximately 0.2-12%”. As table 2 – Summary of Site Specific Sediment Criterion indicates, four (4) out of eight (8) sediment samples were reported as containing organic carbon fractions above the recommended percentage (“Site 2- Surface”; “Site 2 – One Foot”; “Site 3 – Surface”; “Site 3 – One Foot”; and “Site 4 – One Foot”). Regardless, Site Specific Sediment Criterion was calculated for these four (4) sediment samples.

Based on the findings discussed within this report, PES recommends the following:

- Additional sampling/delineation work in perceived up and down stream locations
- Implement remedial measures (excavation and proper offsite disposal) to mitigate PCBs detected in sediment samples

5.0 Disclaimer:

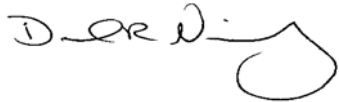
Any statement or opinion contained in this Report prepared by Precision Environmental Services, Inc. (PES) shall not be construed to create any warranty or representation that the real or personal property on which the investigation was conducted is free of pollution or complies with any or all applicable regulatory or statutory requirements, or that the property is fit for any particular purpose. Unless otherwise indicated in this Report, PES did not independently determine the compliance of present or past owners of the site with federal, state or local laws and regulations. The conclusions presented in this Report were based upon the services described, within the time and budgetary constraints imposed by the client, and not on scientific tasks or procedures beyond the scope of those described services. PES shall not be responsible for conditions or consequences arising from any facts that were concealed, withheld or not fully disclosed by any person at the time the evaluation was performed.

Any person or entity considering the acquisition, use or other involvement or activity concerning the property that is the subject of this Report shall be solely responsible for determining the adequacy of the property for any and all such purposes. The person or entity should enter into any such acquisition or use relying solely on its own judgment and personal investigation of the

property, and not upon reliance of any representation by PES regarding the property or the character, quality or value thereof.

Should you have any questions regarding the above report, please feel free to contact the undersigned at 518-885-4399.

SINCERELY
PRECISION ENVIRONMENTAL SERVICES, INC.



Daniel R. Nierenberg
Geologist



Stephen M. Phelps
Project Manager

Enclosures:

Figure 1 – Site Location Map

Figure 2 – Site Map

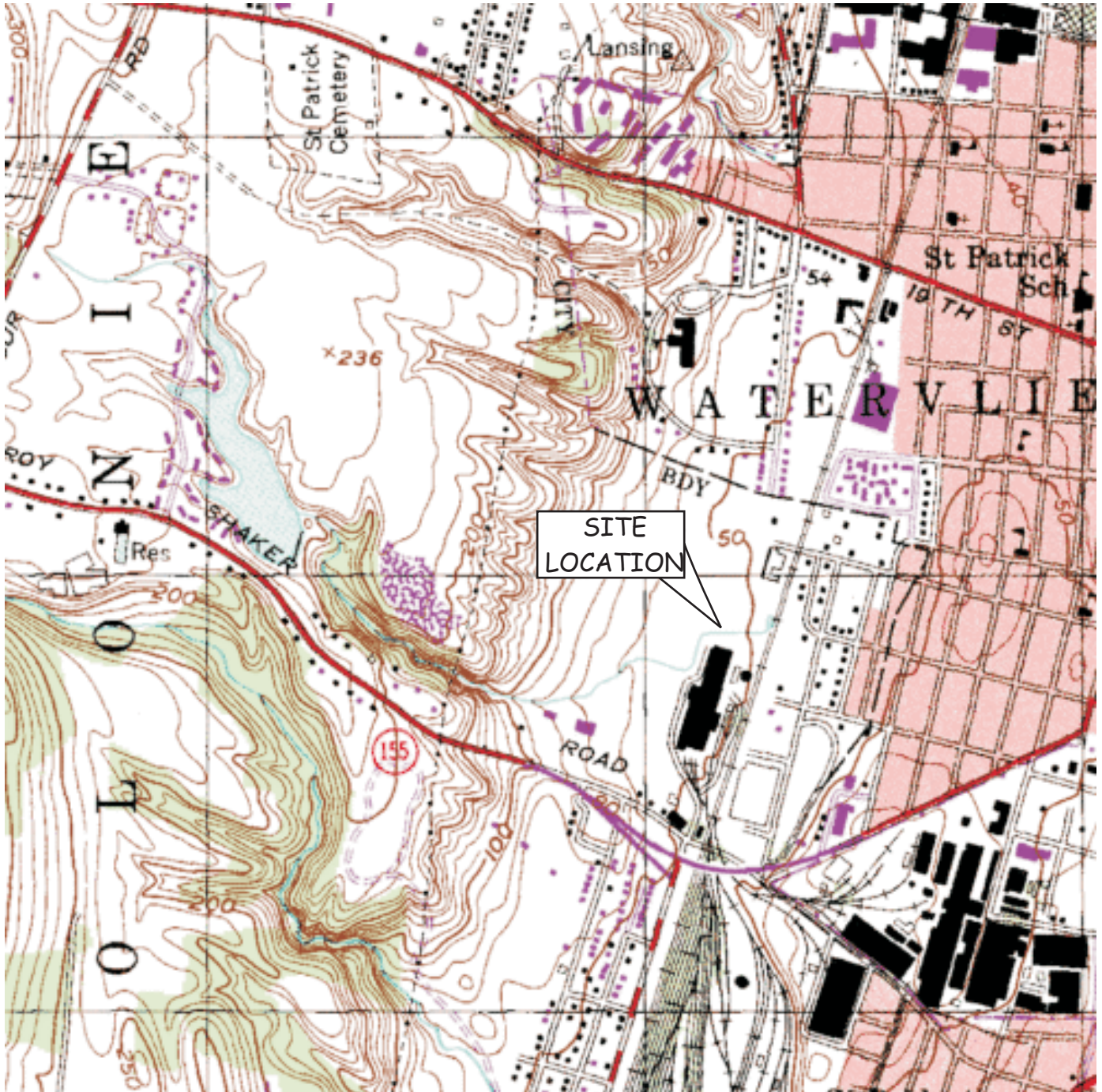
Figure 3 – Sediment Contamination Distribution Map

Table 1 – Summary of Stream Sediment Analytical Results

Table 2 – Summary of Site Specific Sediment Criterion

Attachment A – Laboratory Analytical Report

FIGURES



PRECISION ENVIRONMENTAL SERVICES
831 NYS Route 67, Lot 28
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(518) 885-4399



Client: NYS DEC Central Office

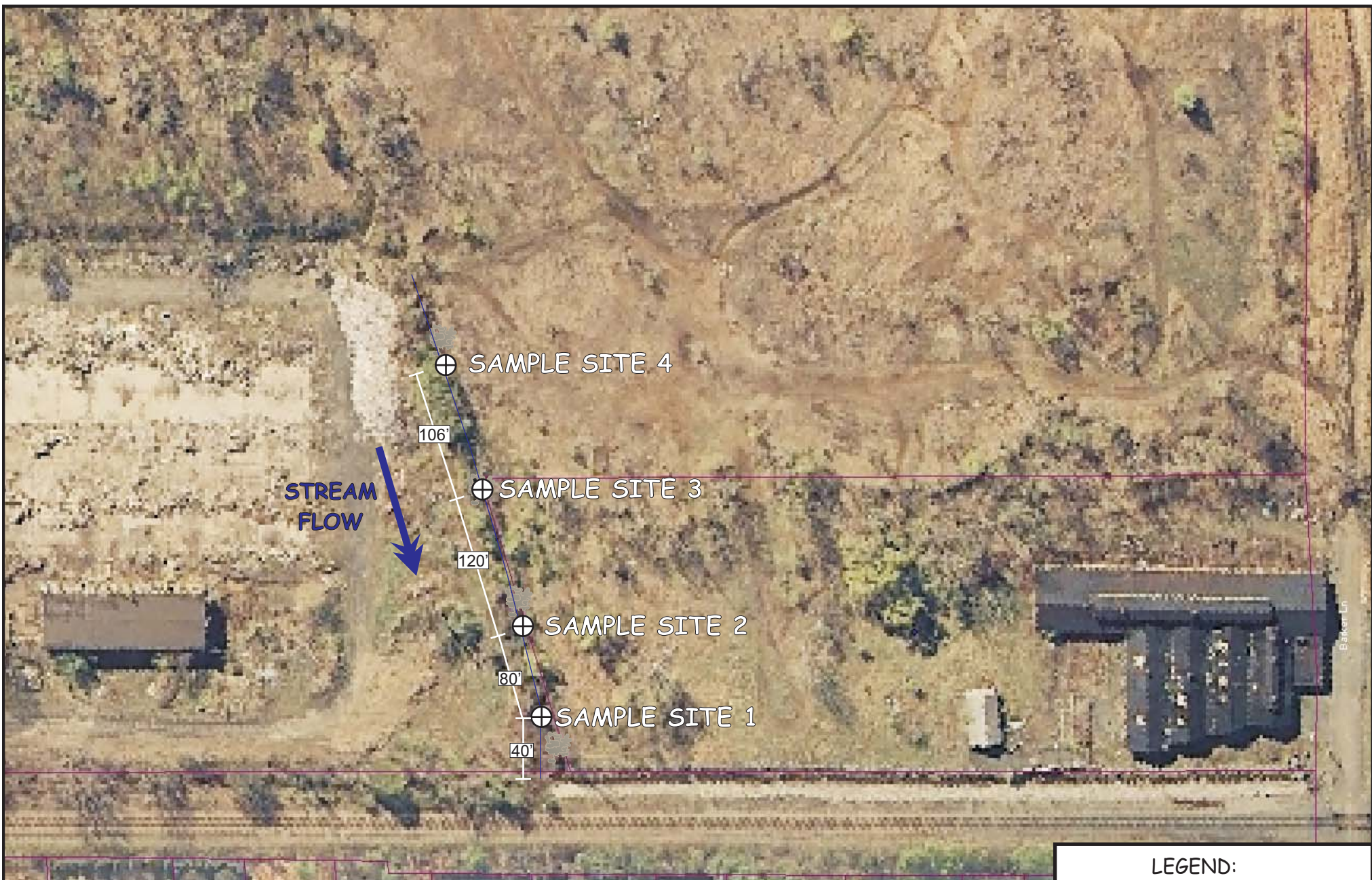
Site Location Map
Former Adirondack Steel
Northern Drainage Ditch
Watervliet, New York

DEC Site No.: 4-01-039

Date: 6-13-2008

Map Courtesy of USGS

Figure: 1



LEGEND:

⊕ - Sediment Sample Location



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831 NYS Route 67, Lot 28C
Ballston Spa, NY 12020
518-885-4399



Client: NYS DEC Central Office

SITE MAP

Former Adirondack Steel
Northern Drainage Ditch
Watervliet, New York

Figure: 2

Date : June 6, 2008

Scale : 1" = 106.63'

Image Provided by NYSDEC

Amended by: DRN



PRECISION ENVIRONMENTAL SERVICES, INC
 831 NYS Route 67, Lot 28C
 Ballston Spa, NY 12020
 518-885-4399



**Sediment Contamination
 Distribution Map
 Former Adirondack Steel
 Northern Drainage Ditch
 Watervliet, New York**

Figure: 3

Date : June 6, 2008

Scale : 1" = 106.63'

Image Provided by NYSDEC
 Ammended by: DRN

TABLES

Table 1:
Summary of Stream
Sediment Analytical
Results

NYSDEC Site No.: 4-01-039 Former Adirondack Steel Watervliet, NY June 6, 2008		Stream Sediment Sample Identification								6 NYCRR Part 375 - Protection of Ecological Resources Soil Cleanup Objectives † ¹
		Site 1 - Surface	Site 1 - One Foot	Site 2 - Surface	Site 2 - One Foot	Site 3 - Surface	Site 3 - One Foot	Site 4 - Surface	Site 4 - One Foot	
Parameter	Method									
Aroclor 1016	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1121	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1221	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1232	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1242	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1248	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1254	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor 1260	EPA-8082	2,200	37,000	1,800	1,600	1,200	4,400	760	800	1,000
Aroclor 1262	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Aroclor1268	EPA-8082	<40	<4100	<56	<45	<45	<250	<39	<40	1,000
Total Compounds	EPA-8082	2,200	37,000	1,800	1,600	1,200	4,400	760	800	
Total Organic Carbon	TOC	10,300	10,700	23,300	16,400	14,400	12,000	10,200	13,700	
Comments: All values are reported in ug/kg - parts per billion (ppb) ND = None detected above laboratory's reporting limits Analytical Facility - Adirondack Environmental Services - Albany, NY † ¹ NYSDEC Brownfield and Superfund Regulation 6 NYCRR Part 375-6: Environmental Remediation Programs Soil Cleanup Objectives										

Table 2:
Site Specific Sediment
Criterion for Human Health Bioaccumulation

NYSDEC Site No.: 4-01-039 Former Adirondack Steel Watervliet, NY June 6, 2008			Stream Sediment Sample Indentification							
Parameter	Method	Units	Site 1 - Surface	Site 1 - One Foot	Site 2 - Surface	Site 2 - One Foot	Site 3 - Surface	Site 3 - One Foot	Site 4 - Surface	Site 4 - One Foot
Sediment Criteria Human Health Bioaccumulation	$\dagger^1$	$\mu\text{g/gOC}$	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Partition coefficient for PCB	$\dagger^2$	l/kg	$10^{6.14}$	$10^{6.14}$	$10^{6.14}$	$10^{6.14}$	$10^{6.14}$	$10^{6.14}$	$10^{6.14}$	$10^{6.14}$
Organic Carbon Normalized PCB Sediment Criterion	$\dagger^2$	$\mu\text{g/gOC}$	1.1043	1.1043	1.1043	1.1043	1.1043	1.1043	1.1043	1.1043
Total Organic Carbon	TOC	gOC/kg	10.30	10.70	23.30	16.40	14.40	12.00	10.20	13.70
Site Specific Sediment Criterion	$\dagger^2$	$\mu\text{g PCB/kg sediment}$	11.374	11.816	25.730	18.111	15.902	13.252	11.264	15.129
Aroclor 1260	EPA-8082	$\mu\text{g/kg}$	2,200	37,000	1,800	1,600	1,200	4,400	760	800
Protection of Ecological Resources Soil Cleanup Objectives	$\dagger^3$	$\mu\text{g/kg}$	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Comments: $\dagger^1$ NYSDEC Technical Guidance for Screening Contaminated Sediments (1999) - Table 1: "Sediment Criteria for Non-Polar Organic Contaminants" $\dagger^2$ NYSDEC Technical Guidance for Screening Contaminated Sediments (1999) - Chapter IV, Section C: "Derivation of Sediment Criteria Using Equilibrium Partitioning" $\dagger^3$ NYSDEC Brownfield and Superfund Regulation 6 NYCRR Part 375-6: Environmental Remediation Programs Soil Cleanup Objectives Site Specific Sediment Criterion compiled using a Sediment Criteria Human Health Bioaccumulation of 0.0008 $\mu\text{g/gOC}$, a Partition Coefficient for PCBs of $10^{6.14}\text{l/kg}$, and a Organic Carbon Normalized PCB Sediment Criterion of 1.1043 $\mu\text{g/gOC}$ Values in RED Equal or Exceeds "Site Specific Sediment Criterion" Values in BOLD RED Equal or Exceed NYSDEC Brownfield and Superfund Regulation 6 NYCRR Part 375-6: Environmental Remediation Programs Soil Cleanup Objectives Values in BOLD are outside the recommendations of Technical Guidance for Screening Contaminated Sediments (1999) - Chapter IV, Section D, Part 3 Analytical Facility - Adirondack Environmental Services - Albany, NY										

ATTACHMENT – 1
Laboratory Analytical Reports



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

June 20, 2008

Ian Bielby
NYS DEC
625 Broadway
Albany, NY 12233-7014

TEL: (518) 885-4399

FAX: (518) 885-4416

Work Order No: 080606049

Site No. 04-01-39

RE: Adirondack Steel

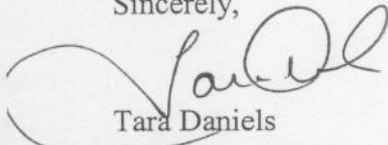
Dear Ian Bielby:

Adirondack Environmental Services, Inc received 8 samples on 6/6/2008 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

CC:

Precision Env/Dan Nierenberg

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Page 1 of 9

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 1-Surface
Collection Date: 6/6/2008
Lab Sample ID: 080606049-001
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: SO
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1221	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1232	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1242	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1248	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1254	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1260	2200	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1262	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
Aroclor 1268	< 40	40		µg/Kg-dry	1	6/10/2008 5:13:03 PM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	10300	100		µg/g-dry	1	6/19/2008

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 1-One-Foot
Collection Date: 6/6/2008
Lab Sample ID: 080606049-002
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1221	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1232	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1242	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1248	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1254	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1260	37000	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1262	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
Aroclor 1268	< 4100	4100		µg/Kg-dry	100	6/11/2008 10:06:04 AM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	10700	100		µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 2-Surface
Collection Date: 6/6/2008
Lab Sample ID: 080606049-003
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: SO
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1221	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1232	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1242	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1248	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1254	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1260	1800	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1262	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
Aroclor 1268	< 56	56		µg/Kg-dry	1	6/10/2008 6:07:18 PM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	23300	100		µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 2-One-Foot
Collection Date: 6/6/2008
Lab Sample ID: 080606049-004
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: SO
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1221	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1232	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1242	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1248	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1254	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1260	1600	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1262	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
Aroclor 1268	< 45	45		µg/Kg-dry	1	6/10/2008 6:25:39 PM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	16400	100		µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 3-Surface
Collection Date: 6/6/2008
Lab Sample ID: 080606049-005
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: SO
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1221	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1232	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1242	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1248	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1254	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1260	1200	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1262	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
Aroclor 1268	< 45	45		µg/Kg-dry	1	6/10/2008 6:43:47 PM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	14400	100		µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 3-One-Foot
Collection Date: 6/6/2008
Lab Sample ID: 080606049-006
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1221	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1232	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1242	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1248	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1254	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1260	4400	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1262	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
Aroclor 1268	< 250	250		µg/Kg-dry	5	6/11/2008 10:31:19 AM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	12000	100		µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 4-Surface
Collection Date: 6/6/2008
Lab Sample ID: 080606049-007
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: SO
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1221	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1232	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1242	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1248	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1254	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1260	760	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1262	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
Aroclor 1268	< 39	39		µg/Kg-dry	1	6/10/2008 7:19:56 PM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	10200	100		µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 20-Jun-08

CLIENT: NYS DEC
Work Order: 080606049
Reference: Adirondack Steel /
PO#:

Client Sample ID: Site 4-One-Foot
Collection Date: 6/6/2008
Lab Sample ID: 080606049-008
Matrix: SOIL

Site No. 04-01-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: SO
(Prep: SW3545 - 6/9/2008)						
Aroclor 1016	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1221	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1232	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1242	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1248	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1254	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1260	800	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1262	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
Aroclor 1268	< 40	40		µg/Kg-dry	1	6/10/2008 7:37:58 PM
TOTAL ORGANIC CARBON LLOYD KAHN						Analyst: PL
Total Organic Carbon	13700	100	R	µg/g-dry	1	6/19/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range



Experience is the solution

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Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

AES Work Order #

080606C49

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: NYDEC-CENTRAL		Address: 625 BROADWAY, ALBANY, NY	
Send Report To: Dan Bielly		Project Name (Location): Adirondack Steel	
Client Phone No: 518 885-4399		Client Fax No: 518-885-4916	
PO Number: Site No.: 4-01-039		Samplers: (Names) DAN NIENBERG + Mike Dudley	
Samplers: (Signature) <i>[Signature]</i>			

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
001	Site 1 - surface	6/6/08	8:25	A	S	X	1	PCBS +
002	Site 1 - one-foot		8:45	A			1	Total Organic
003	Site 2 - surface		11:15	A			1	Carbon
004	Site 2 - one-foot		11:15	A			1	
005	Site 3 - surface		9:08	A			1	
006	Site 3 - one-foot		9:08	A			1	
007	Site 4 - surface		10:25	A			1	
008	Site 4 - one-foot		10:25	A			1	
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				

Nothing Follows

Shipment Arrived Via: ☒ FedEx ☐ UPS ☐ Client ☐ AES ☐ Other: _____		CC Report To / Special Instructions/Remarks: cc: Dan Nienberg @ PES	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature)	
Relinquished by: (Signature)		Received by: (Signature)	
Relinquished by: (Signature)		Received for Laboratory by: <i>[Signature]</i>	
		Date/Time 6/6/08 12:53 pm	
TEMPERATURE Ambient or Chilled 90C		PROPERLY PRESERVED ☒ Y ☐ N	
Notes: _____		RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N	
Notes: _____		Notes: _____	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by credit card are subject to a 3% additional charge.