



November 14, 2012

Jergo LLC  
58 Tracey Street  
Buffalo, New York 14201

Attention: Mr. Giles Kavanagh

Cell Phone: (917) 213-2832  
Email: jergollc@gmail.com

RE: Preliminary Phase II Investigation Report;  
1100 Niagara Street; Buffalo, New York

Mr. Kavanagh:

This Preliminary Phase II Investigation Report (Phase II) provides an overview of the results of soil and water samples collected at the property located at 1100 Niagara Street in Buffalo, New York. The property is located at the northwest corner of the intersection of Niagara Street and Albany Street. To the east of the property is Niagara Street; to the west is a railroad easement and Interstate 190; to the north the building abuts Oliver Gear and Modern Heat Treatment; and to the south is vacant land.

## **PREVIOUS WORK**

GES completed a Phase I Environmental Site Assessment (ESA) in September of 2012, for the property and uncovered recognized and suspect environmental concerns inside and outside of the building and from adjacent properties in accordance with the ASTM Standard Practice E 1527. Based upon the nature of the available information reviewed and referenced in this Phase I ESA, the following RECs were found within the building:

- There was a spill that occurred in the storage building from a leaking 55 gallon drum of oil. While the oil was cleaned up, the staining on the floor and wall remains.
- There were approximately a dozen fluorescent light ballasts in an electric/tool room located in an upstairs room to the left of the main building entry way.

The following RECs were found outside of the building on the property:

- Soil as well as construction and demolition debris have been dumped along the building between the south wall of the storage area and Albany Street. Used medical syringes were also observed scattered among the debris piles. The origin of this material is from off-site and it is unknown if this material may have contamination associated with it.



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- There are two propane tanks on site near the front entry way to the building; a 20-pound cylinder just to the right of the entry way, and a 40 pound cylinder alongside of the office building near the entry way to the main building.

The following are suspect environmental conditions (SECs) that were observed or discovered within the interior of the building during the completion of this Phase I ESA:

- The interior brick building walls are stained a dark brownish color. This could have been from the use of a coating to seal the brick through time, or could be related to past industrial practices that occurred within the building.
- Industrial cleaning fluids were reportedly within the building immediately to right of the main building entry way.
- There are a number of sumps on the main floor of the building that have been filled in with either soil or concrete.
- There is a drain on the main floor of the building that may have historically received cleaning fluids from on-site industrial processes. It is unknown where this drain discharges.
- There is a sump under the mezzanine approximately two feet deep that is filled with sediment and water. The chemical nature of the sediment and water in this sump are unknown
- There is a shaft under the grain elevators/bins with standing water, sediment and refuse in it. The chemical nature of sediment and water are unknown.
- There is a drain in the basement boiler room that likely received condensate from the boiler. It is unknown where this drain discharges.

The following SEC was found outside of the building on the property:

- There are pole mounted transformers along the electric right of way along the south property boundary with Albany Street.

Subsequent to provision of these findings to Jergo LLC (Jergo), a meeting was scheduled with Mr. Martin Doster, PE of the New York State Department of Environmental Conservation (NYSDEC) to discuss the state Brownfield program.

## **OBJECTIVE**

Based on the findings of the Phase I ESA and the meeting with the NYSDEC, Jergo requested that Groundwater and Environmental Services, Inc. (GES) complete a preliminary Phase II investigation to evaluate if the property is a potential candidate for the New York State Brownfields program.

## **SCOPE OF WORK**

Based on the findings of the Phase I ESA and the meeting between Jergo, GES and the NYSDEC, Jergo requested GES complete a preliminary Phase II Investigation at 1100 Niagara Street with the following scope of work:



- Collection of four soil samples from debris piles along the southern property boundary for chemical analysis;
- Collection of a water and sediment sample from the sump under the mezzanine for chemical analysis; and
- Collection of a sample of residue on the interior walls of the main room of the building for chemical analysis.

Prior to field activities, GES developed a site specific health and safety plan (HASP) to assure that field work would be completed safely. Soil, sediment and water samples were collected using clean, decontaminated field sampling equipment. Soil, sediment and water samples were field screened with a photo-ionization detector (PID) for the presence of volatile organic compounds prior to sample collection.

On Thursday, October 11, 2012, field activities commenced. Samples were collected by a two-man sampling crew. Four shallow soil samples were collected using a hand auger from the debris piles at the locations noted on **Figure 1**. For each sample, soil samples were collected at several locations and composited into one sample within each pile as Soil Composite Sample SC – 1 through SC - 4.

A “grab” water sample (MSW – 6) was collected from the mezzanine sump using a clean decontaminated scoop (**Figure 1**). The sediment sample was collected at several locations within and around the mezzanine sump and composited into one sample for analysis (MSS-5). This sample appeared to be comprised primarily of “charred” wood chips and other “deleterious” material.

Last, a residue sample (or possibly paint) was from several locations along the interior wall behind the mezzanine of the main room (**Figure 1**). The sample was collected by scraping the residue with a stainless steel scraper onto a piece of clean paper that was placed on the floor under the wall area that was scraped. The residue material on the paper was then placed in the sample collection glass container. The composite sample was called sample (RS – 7) with composite sampling locations shown on **Figure 1**.

## **ANALYSIS OF SAMPLES**

Samples were placed in clean, dedicated glassware containers provided by the contract laboratory (Upstate Laboratories). The samples were sealed and placed on ice for shipment to the contract laboratory for analysis. Soil, sediment, water and the wall residue sample were then analyzed for the standard parameters associated with the completion of Phase II investigations as follows:

- Target Compound List volatile organic compounds (VOCs) using US Environmental Protection Agency (USEPA) Method SW 846 8260/5035;
- Target Compound List semi-volatile organic compounds (SVOCs) using USEPA Method SW 846 8270;
- Target Analyte List metals using USEPA Method SW 846 6010/6020/7451;
- Pesticides using USEPA Method SW 846 8081; and



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- Polychlorinated biphenyls (PCBs) using USEPA Method SW 846 8082.

Laboratory turnaround time was five days from receipt of the samples (standard turnaround time).

## **SAMPLE RESULTS**

The following provides a summary of the analytical results from the samples collected as part of this investigation. This information is tabulated on **Table 1**.

### ***Soil, Sediment and Residue Samples - Volatile Organic Compounds (VOCs)***

Only one VOC was detected out of the 56 VOCs that the soil, sediment and residue samples were analyzed for. Methylene chloride was detected at a concentration of 15.00 micrograms per kilogram (ug/kg) in the mezzanine sump sediment sample (MSS-5).

### ***Soil, Sediment and Residue Samples – Semi-volatile Organic Compounds (SVOCs)***

The soil, sediment and residue samples were analyzed for 67 SVOC compounds, of which 20 were detected. Five SVOCs were detected in soil sample SC – 1; eight SVOCs were detected in soil sample SC – 2; 16 SVOCs were detected in soil sample SC – 3, 16 SVOCs were also detected in SC - 4; 19 SVOCs were detected at high concentrations in the sediment sample collected from the mezzanine sump (MSS-5), and no SVOCs were detected in RS – 7, the wall residue sample (**Table 1**).

### ***Soil, Sediment and Residue Samples – Metals***

Organic matter, minerals and metals are a common constituent in soil. However, at many historic sites, metals occur at concentrations that can be harmful to human health and the environment. The soil, sediment and residue samples were analyzed for 22 metals, of which 20 metals were detected in the samples. Seventeen metals were detected in soil sample SC – 1; 18 metals were detected in soil sample SC – 2; 16 17 metals were detected in soil sample SC – 3, 17 metals were in SC - 4; 18 metals were detected in the sample collected from the mezzanine sump (MSS-5), and 18 metals were detected in RS – 7, the wall residue sample (**Table 1**).

### ***Soil and Sediment Samples – Pesticides***

The samples were analyzed for the presence of 21 different pesticides; of which seven pesticides were detected in the referenced samples. No pesticides were detected in SC – 1 or SC – 2. Five pesticides were detected in SC – 3; three pesticides were detected in SC – 4; and the wall residue sample was not analyzed for pesticides (**Table 1**).

### ***Soil, Sediment and Residue Samples – Polychlorinated Biphenyls (PCBs)***

There were no PCBs detected in the soils or sediment samples. The wall residue sample (RS – 7) was not analyzed for the presence of PCBs (**Table 1**).





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### ***Water Sample from Mezzanine Sump – Volatile Organic Compounds***

One VOC (acetone) was detected out of the 58 VOCs that the sample was analyzed for (**Table 2**).

### ***Water Sample from Mezzanine Sump – Semi-volatile Organic Compounds***

No SVOCs were detected in the water sample analyzed from the mezzanine sump (**Table 2**).

### ***Water Sample – Metals***

The water sample from the mezzanine sump was analyzed for the presence of 23 different metals; only seven metals were detected in the sample (**Table 2**).

### ***Water Sample – Pesticides***

Dieldrin was the only pesticide detected in the water from the mezzanine sump (**Table 2**).

### ***Water Sample – Polychlorinated Biphenyls***

PCBs were not detected in the water sample from the mezzanine sump (**Table 2**).

## **COMPARISON OF ANALYTICAL RESULTS TO APPLICABLE GUIDANCE VALUES**

### ***Comparison of Soil Analytical Results to NYSDEC Part 375 Soil Clean Up Objectives***

Subpart 375.6 applies to the development and implementation of remedial programs for soil and other media and includes soil clean up objective tables for various uses of remedial properties:

- Unrestricted Use – soil clean up objectives that represent the concentration of a contaminant in soil, which when achieved at a site, will require no use restrictions on the site for the protection of public health, groundwater and ecological resources due to the presence of contaminants in soil. The unrestricted soil cleanup objectives represent the lowest of the three values for protection of groundwater, ecological resources and public health.
- Restricted Use – soil cleanup objectives consist of four tracks: Residential Use; Restricted-Residential Use; Commercial Use; and, Industrial Use.
- Soil Cleanup Objectives for the Protection of Groundwater – applicable at restricted use sites where contamination has been identified in on-site soil by the remedial investigation and groundwater standards are, or are threatened to be, contravened by the presence of soil contamination at concentrations above the protection of groundwater soil cleanup objectives.
- Soil Cleanup Objectives for the protection of Ecological Resources – Applicable for upland soils at sites where terrestrial flora and fauna and the habitats that support them are identified.

For the purposes of this report, analytical results for the soil and sediment sample will be compared to Part 375 Restricted Residential Use Soil Cleanup Objectives. **Table 1**



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provides a summary of the analytical results as compared to 6 NYCRR Part 375 guidance. Compounds or metals that exceed the Part 375 standard are highlighted as a "grey" cell on the **Table 1**.

### **Soil Samples**

Soil pile samples SC – 1, SC – 2, SC – 3 and SC – 4 exceeded the Lead (SC-1, SC-3), Mercury (SC-4), Dieldrin (SC-4) soil cleanup objectives for restricted residential use (**Table 1**).

The following SVOCs soil cleanup objectives for restricted residential use were also exceeded: Benzo(a)anthracene (SC-3 and 4); Benzo(a)pyrene (SC-3 and 4), Benzo(b)fluoranthene (SC-2, 3 and 4), Benzo(k)fluoranthene (SC-3), Chrysene (SC-3 and 4), Dibenzo(a,h)anthracene (SC-4), and Ideno(1,2,3-C,D)pyrene (SC-3 and 4) (**Table 1**).

### **Sediment Sample**

The sediment sample from the mezzanine sump (MSS-5) exceeded the restricted residential use soil cleanup objectives for the metals Copper, Lead and Mercury. This sample also exceeded to soil cleanup objective for the pesticide Dieldrin. SVOCs exceeded the restricted residential soil cleanup objectives as follows; Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Ideno(1,2,3-C,D)pyrene, Napthalene, Phenanthrene and Pyrene (**Table 1**).

### **Wall Residual Sample**

This sample (RS-7) was only analyzed for metals and SVOCs. It exceeded the restricted residential use soil cleanup objectives for Cadmium, Lead, Zinc and Mercury. No SVOCs were detected in the sample (**Table 1**).<sup>1</sup>

### **Comparison of Water Analytical Results to NYSDEC T.O.G.S. 1.1.1 Guidance Values**

Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) provides ambient water quality guidance values and groundwater effluent limitations where there are no standards. This guidance was be used for comparison of the water quality results of the mezzanine water sample (MSNW-6). Metals were detected in this sample below guidance values. The pesticide Dieldrin and the VOC Acetone exceeded the TOGS1.1.1 water standards. There were no SVOCs detected in this sample (**Table 2**).

## **CONCLUSIONS**

The Preliminary Phase II Investigation for the property at 1100 Niagara Street was completed in accordance with the proposal dated October 4, 2012. Analytical results for soil samples SC-1 through SC-4 show the presence of metals, a pesticide and SVOCs above the restricted residential soil cleanup objectives.

Sediment sample MSS-5 collected from the mezzanine sump significantly exceeded the restricted residential use soil cleanup objectives for several metals, a pesticide, and 14 SVOCs.





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This composite sample from the sump likely contains has a mixture of materials that were used within the building including lead paint residue from the walls, and burned wood debris that was present in the sump.

The wall residue sample is most likely not residue from manufacturing processes. The dark grey-brown coating on the interior walls of the main building is likely to be lead based paint since there were significant concentrations of Cadmium, Lead, and Zinc that are present in the sample. The origin of Mercury in the sample is unknown.

The presence of Dieldrin and Acetone above TOGS 1.1.1 indicates the likely presence of pesticides use onsite as well as compound containing VOCs, possibly for cleaning purposes.

Based on the preliminary information collected, 1100 Niagara Street appears to be eligible for New York State Brownfields assistance for site cleanup.

### **RECOMMENDATIONS**

GES recommends a meeting with NYSDEC Region 9 personnel to present the findings of this preliminary investigation and to request that the property is placed into the New York State Brownfields program. Once it is accepted, additional investigative work at the property should take place to ascertain the nature and extent of soil and groundwater contamination that may or may not be present.

### **CLOSURE**

GES appreciates the opportunity to provide environmental consulting services to Jergo, LLC. Please contact the undersigned if you have questions or need additional information.

Sincerely,

Eric Popken  
Project Manager/Hydrogeologist

Norman K. Wohlabaugh, PG, CPG  
Site Operations Manager/Senior Geologist  
Groundwater and Environmental Services, Inc.

495 Aero Drive, Suite 3  
Cheektowaga, New York 14225

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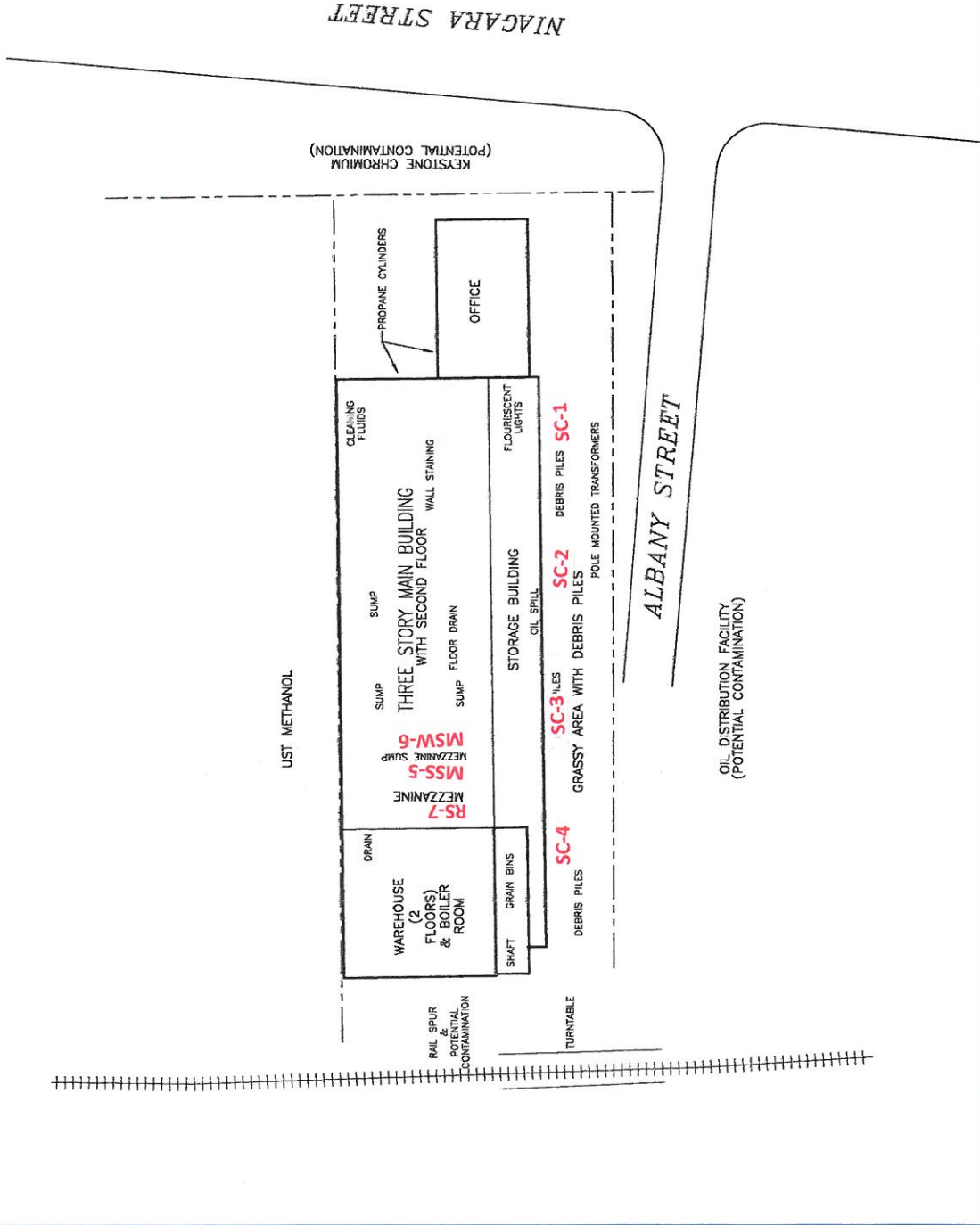


## FIGURES





**LEGEND**  
 - - - - - PROPERTY BOUNDARY  
 + + + + + RAILROAD TRACKS



|   |   |
|---|---|
| <b>FIGURE 1: SAMPLING LOCATIONS</b>         |   |
| DRAFTED BY:<br>E.M.E.<br>(N.J.)             | JERGO LLC<br>1100 NIAGARA STREET<br>BUFFALO, NEW YORK |
| CHECKED BY:                                 |   |
| REVIEWED BY:                                |   |
| NORTH                                       | DATE<br>10-15-12                                      |
| SCALE IN FEET<br>0 APPROXIMATE 50<br>FIGURE |   |

OIL DISTRIBUTION FACILITY  
(POTENTIAL CONTAMINATION)



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## **TABLES**



**Table 1: Analysis of Soil, Sediment and residue Samples  
1100 Niagara Street  
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| Sample Name   | **6 NYCRR Part 375 Soil<br>Cleanup Objectives<br>Restricted Residential | SC - 1     | SC - 2     | SC - 3     | SC - 4     | MSS-5      | RS - 7     |
|---|---|------------|------------|------------|------------|------------|------------|
| Sample Type   |   | Soil       | Soil       | Soil       | Soil       | Sediment   | Residue    |
| Sample Depth  |   | 0-6"       | 0-6"       | 0-6"       | 0-6"       | 0-1"       | Surf       |
| Date  |   | 10/11/2012 | 10/11/2012 | 10/11/2012 | 10/11/2012 | 10/11/2012 | 10/11/2012 |
| PID Reading (ppmv)                                  |   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| <b>Metals (mg/kg)</b>                               |   |            |            |            |            |            |            |
| ALUMINUM  | NS  | 9500       | 8700       | 7200       | 5500       | 5600       | 1500       |
| ARSENIC   | 16  | 11         | ND         | 8.5        | 4.5        | 9.7        | 66         |
| BARIUM  | 400   | 210        | 150        | 160        | 130        | 260        | 640        |
| BERYLLIUM   | 72  | ND         | 1.3        | ND         | ND         | ND         | ND         |
| CADMIUM   | 4.3   | ND         | 1          | ND         | ND         | 3.6        | 230        |
| CALCIUM   | NS  | 30000      | 41000      | 72000      | 76000      | 74000      | 42000      |
| CHROMIUM, TOTAL                                     | 290   | 19         | 16         | 12         | 12         | 43         | 11         |
| COBALT  | NS  | 7.7        | 6.6        | 4.2        | 3.3        | ND         | ND         |
| COPPER  | 270   | 59         | 26         | 28         | 170        | 460        | 31         |
| IRON  | NS  | 18000      | 17000      | 13000      | 11000      | 34000      | 9400       |
| LEAD  | 400   | 690        | 220        | 590        | 120        | 2200       | 58000      |
| MAGNESIUM   | NS  | 9600       | 12000      | 17000      | 20000      | 7300       | 8200       |
| MANGANESE   | 2,000   | 380        | 400        | 510        | 430        | 360        | 1100       |
| NICKEL  | 310   | 17         | 16         | 12         | 11         | 61         | 6.1        |
| POTASSIUM   | NS  | 1400       | 1300       | 1400       | 1400       | 950        | 590        |
| SELENIUM  | 180   | ND         | ND         | ND         | ND         | ND         | 35         |
| SODIUM  | NS  | 180        | 90         | 390        | 130        | 1200       | 10000      |
| VANADIUM  | NS  | 22         | 21         | 23         | 13         | ND         | 34         |
| ZINC  | 10,000  | 390        | 190        | 310        | 220        | 1400       | 40000      |
| MERCURY   | 0.81  | 0.225      | 0.108      | 0.111      | 1.57       | 12.6       | 6.91       |
| <b>Pesticides/Polychlorinated Biphenyls (mg/kg)</b> |   |            |            |            |            |            |            |
| PCBs  | 1   | ND         | ND         | ND         | ND         | ND         | ND         |
| 4,4'-DDD  | 13  | ND         | ND         | 0.042      | ND         | 0.240      | NA         |
| 4,4'-DDE  | 8.9   | ND         | ND         | ND         | ND         | 1.500      | NA         |
| 4,4'-DDT  | 7.9   | ND         | ND         | 0.140      | 0.057      | 3.600      | NA         |
| alpha-Chlordane                                     | 4.2   | ND         | ND         | 0.034      | ND         | ND         | NA         |
| gamma-Chlordane                                     | NS  | ND         | ND         | 0.039      | ND         | ND         | NA         |
| Methoxychlor  | NS  | ND         | ND         | 0.310      | 0.200      | 0.990      | NA         |
| Dieldrin  | 0.2   | ND         | ND         | ND         | 1.000      | 12.000     | NA         |
| <b>Volatile Organic Compounds (mg/kg)</b>           |   |            |            |            |            |            |            |
| METHYLENE CHLORIDE                                  | 100   | ND         | ND         | ND         | ND         | 0.015      | NA         |
|   |   |            |            |            |            | 0.015      |            |
| <b>Semi-Volatile Organic Compounds (mg/kg)</b>      |   |            |            |            |            |            |            |
| 2,4-DIMETHYLPHENOL                                  | NS  | ND         | ND         | ND         | ND         | 9.70       | ND         |
| 2-METHYLNAPHTHALENE                                 | NS  | ND         | ND         | ND         | ND         | 83.00      | ND         |
| ACENAPHTHENE  | 100   | ND         | ND         | 1.80       | 0.81       | 120.00     | ND         |
| ACENAPHTHYLENE                                      | 100   | ND         | ND         | 0.25       | ND         | ND         | ND         |
| ANTHRACENE  | 100   | ND         | ND         | 4.20       | 1.90       | 200.00     | ND         |
| BENZO(A)ANTHRACENE                                  | 1.0   | 0.31       | 0.91       | 12.00      | 6.40       | 250.00     | ND         |
| BENZO(A)PYRENE                                      | 1.0   | 0.25       | 0.72       | 8.00       | 4.60       | 170.00     | ND         |
| BENZO(B)FLUORANTHENE                                | 1.0   | ND         | 1.20       | 15.00      | 8.60       | 240.00     | ND         |
| BENZO(G,H,I)PERYLENE                                | 100   | ND         | ND         | 2.80       | 1.70       | ND         | ND         |
| BENZO(K)FLUORANTHENE                                | 3.9   | ND         | 0.53       | 4.10       | 2.70       | 110.00     | ND         |
| BIPHENYL (DIPHENYL)                                 | NS  | ND         | ND         | ND         | ND         | 19.00      | ND         |
| CARBAZOLE   | NS  | ND         | 0.72       | 2.50       | 0.98       | 80.00      | ND         |
| CHRYSENE  | 3.9   | 0.26       | ND         | 8.20       | 4.70       | 170.00     | ND         |
| DIBENZ(A,H)ANTHRACENE                               | 0.33  | ND         | ND         | ND         | 0.56       | 20.00      | ND         |
| FLUORANTHENE  | 100   | 0.45       | 1.60       | 19.00      | 1.10       | 460.00     | ND         |
| FLUORENE  | 100   | ND         | ND         | 1.90       | 0.94       | 150.00     | ND         |
| INDENO(1,2,3-C,D)PYRENE                             | 0.5   | ND         | ND         | 3.60       | 2.20       | 76.00      | ND         |
| NAPHTHALENE   | 100   | ND         | ND         | 0.60       | 0.25       | 200.00     | ND         |
| PHENANTHRENE  | 100   | ND         | 1.00       | 16.00      | 8.20       | 800.00     | ND         |
| PYRENE  | 100   | 0.36       | 1.30       | 27.00      | 16.00      | 610.00     | ND         |
|   |   | 1.63       | 7.98       | 126.95     | 61.64      | 3767.7     | 0          |

All soil cleanup objectives are in mg/kg  
All analytical results are in mg/kg

NS = Not Specified  
ND = Not Detected  
NA = Not Analyzed for

**Table 2: Analysis of Mezzanine Sump Water Sample  
1100 Niagara Street  
Buffalo, New York**

| Sample Name  |           | NYSDEC<br>TOGS 1.1.1<br>Groundwater<br>Standards | MSW-6         |
|--|-----------|--|---------------|
| Sample Type  |           |  | Surface Water |
| Sample Date  |           |  | 10/11/2012    |
| Depth to Water (ft below TOC)                      |           |  | Surface Water |
| <b>Metals (ug/L)</b>                               |           |  |               |
|  | BARIUM    | <b>2,000</b>                                     | 1             |
|  | CALCIUM   | <b>NS</b>  | 310           |
|  | LEAD      | <b>50</b>  | 0.014         |
|  | MAGNESIUM | <b>35,000</b>                                    | 95            |
|  | MANGANESE | <b>NS</b>  | 0.15          |
|  | POTASSIUM | <b>NS</b>  | 7.4           |
|  | SODIUM    | <b>NS</b>  | 240           |
| <b>Pesticides/Polychlorinated Biphenyls (ug/L)</b> |           |  |               |
|  | PCBs      | 0.09   | ND            |
|  | DIELDRIN  | 0.004  | 0.51          |
| <b>Volatile Organic Compounds (ug/L)</b>           |           |  |               |
|  | ACETONE   | <b>50</b>  | 93            |
| <b>Semi-Volatile Organic Compounds (ug/L)</b>      |           |  | ND            |

**Notes:**

U = below laboratory detection limits

ug/L = micrograms per liter

\* TOGS 1.1.1 - 1 ug/L standard applies to total chlorinated Phenols

NR=Not Regulated by TOGS 1.1.1





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## **APPENDIX A – LABORATORY ANALYTICAL RESULTS**

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: SC-1

Lab Order: U1210333

Collection Date: 10/11/2012 12:00:00 PM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-001

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Cooler Temp. at Receipt

<6

6

°C

10/11/2012 12:00:00 PM

### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: 8081A/8082\_S

Analyst: EA

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

|                    |    |      |  |           |    |            |
|--------------------|----|------|--|-----------|----|------------|
| 4,4'-DDD           | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDE           | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDT           | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aldrin             | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-BHC          | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-Chlordane    | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1016       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1221       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1232       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1242       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1248       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1254       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1260       | ND | 380  |  | µg/Kg-dry | 10 | 10/18/2012 |
| beta-BHC           | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| delta-BHC          | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Dieldrin           | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan I       | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan II      | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan sulfate | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin             | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin aldehyde    | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin ketone      | ND | 38   |  | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-BHC          | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-Chlordane    | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor         | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor epoxide | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Methoxychlor       | ND | 200  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Toxaphene          | ND | 2000 |  | µg/Kg-dry | 10 | 10/18/2012 |

#### NOTES:

The reporting limits were raised due to matrix interference.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

Page 1 of 40

Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

|                   |                                      |                          |                        |
|-------------------|--------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Groundwater & Environmental Services | <b>Client Sample ID:</b> | SC-1                   |
| <b>Lab Order:</b> | U1210333                             | <b>Collection Date:</b>  | 10/11/2012 12:00:00 PM |
| <b>Project:</b>   | 0901516 - 1100 Niagara Street        |                          |                        |
| <b>Lab ID:</b>    | U1210333-001                         | <b>Matrix:</b>           | SOIL                   |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

|                                       |                   |                                  |               |           |   |                       |
|---------------------------------------|-------------------|----------------------------------|---------------|-----------|---|-----------------------|
| [Solid Prep Total Metals by EPA 3050B | Prep Code: 3050_I | Prep Date: 10/15/2012 9:53:44 AM | Prep By: ARO] |           |   |                       |
| Aluminum                              | 9500              | 5.5                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Barium                                | 210               | 33                               |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Beryllium                             | ND                | 0.55                             |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Cadmium                               | ND                | 0.55                             |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Calcium                               | 30000             | 55                               |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Chromium                              | 19                | 5.5                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Cobalt                                | 7.7               | 4.0                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Copper                                | 59                | 5.5                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Iron                                  | 18000             | 3.3                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Lead                                  | 690               | 11                               |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Magnesium                             | 9600              | 55                               |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Manganese                             | 380               | 2.2                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Nickel                                | 17                | 3.3                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Potassium                             | 1400              | 55                               |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Silver                                | ND                | 5.5                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Sodium                                | 180               | 55                               |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Vanadium                              | 22                | 33                               | J             | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |
| Zinc                                  | 390               | 1.1                              |               | mg/Kg-dry | 1 | 10/16/2012 5:50:24 PM |

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

|                                       |                   |                                  |               |           |    |                        |
|---------------------------------------|-------------------|----------------------------------|---------------|-----------|----|------------------------|
| [Solid Prep Total Metals by EPA 3050B | Prep Code: 3050_I | Prep Date: 10/15/2012 9:53:44 AM | Prep By: ARO] |           |    |                        |
| Antimony                              | ND                | 5.5                              | Q             | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Arsenic                               | 11                | 5.5                              | Q             | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Selenium                              | ND                | 3.3                              |               | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Thallium                              | ND                | 3.3                              |               | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

|   |                    |                                   |               |           |   |                       |
|---|--------------------|-----------------------------------|---------------|-----------|---|-----------------------|
| [Total Mercury Prep - Soil/Solid/Waste by 7471A | Prep Code: 7471APR | Prep Date: 10/15/2012 11:09:29 AM | Prep By: ARO] |           |   |                       |
| Mercury   | 0.225              | 0.111                             |               | mg/Kg-dry | 1 | 10/16/2012 2:53:24 PM |

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

|                                       |                     |                                   |               |           |   |                       |
|---------------------------------------|---------------------|-----------------------------------|---------------|-----------|---|-----------------------|
| [Soil Pr. Sonication BNA by EPA 3550B | Prep Code: 3550_BNA | Prep Date: 10/16/2012 11:08:23 AM | Prep By: DMD] |           |   |                       |
| (3+4)-Methylphenol                    | ND                  | 980                               | Q             | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 1,2,4,5-Tetrachlorobenzene            | ND                  | 980                               |               | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |     |      |   |           |   |                       |
|-----------------------------|-----|------|---|-----------|---|-----------------------|
| 1,2,4-Trichlorobenzene      | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,4,5-Trichlorophenol       | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,4,6-Trichlorophenol       | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,4-Dichlorophenol          | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,4-Dimethylphenol          | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,4-Dinitrophenol           | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,4-Dinitrotoluene          | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2,6-Dinitrotoluene          | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2-Chloronaphthalene         | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2-Chlorophenol              | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2-Methylnaphthalene         | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2-Methylphenol              | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2-Nitroaniline              | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 2-Nitrophenol               | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 3,3'-Dichlorobenzidine      | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 3-Nitroaniline              | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4,6-Dinitro-2-methylphenol  | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4-Bromophenyl phenyl ether  | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4-Chloro-3-methylphenol     | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4-Chloroaniline             | ND  | 980  | Q | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4-Chlorophenyl phenyl ether | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4-Nitroaniline              | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| 4-Nitrophenol               | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Acenaphthene                | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Acenaphthylene              | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Acetophenone                | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Anthracene                  | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Atrazine                    | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Benz(a)anthracene           | 310 | 980  | J | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Benzaldehyde                | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Benzo(a)pyrene              | 250 | 980  | J | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Benzo(b)fluoranthene        | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Benzo(g,h,i)perylene        | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Benzo(k)fluoranthene        | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Biphenyl                    | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Bis(2-chloroethoxy)methane  | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Bis(2-chloroethyl)ether     | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |     |      |   |           |   |                       |
|-----------------------------|-----|------|---|-----------|---|-----------------------|
| Bis(2-chloroisopropyl)ether | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Bis(2-ethylhexyl)phthalate  | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Butyl benzyl phthalate      | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Caprolactam                 | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Carbazole                   | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Chrysene                    | 260 | 980  | J | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Di-n-butyl phthalate        | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Di-n-octyl phthalate        | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Dibenz(a,h)anthracene       | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Dibenzofuran                | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Diethyl phthalate           | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Dimethyl phthalate          | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Fluoranthene                | 450 | 980  | J | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Fluorene                    | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Hexachlorobenzene           | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Hexachlorobutadiene         | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Hexachlorocyclopentadiene   | ND  | 980  | Q | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Hexachloroethane            | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Indeno(1,2,3-cd)pyrene      | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Isophorone                  | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| N-Nitrosodi-n-propylamine   | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| N-Nitrosodiphenylamine      | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Naphthalene                 | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Nitrobenzene                | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Pentachlorophenol           | ND  | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Phenanthrene                | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Phenol                      | ND  | 980  |   | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |
| Pyrene                      | 360 | 980  | J | µg/Kg-dry | 5 | 10/17/2012 5:03:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                        |    |     |  |           |   |                       |
|------------------------|----|-----|--|-----------|---|-----------------------|
| 1,2,3-Trichlorobenzene | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,2,4-Trichlorobenzene | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,2,4-Trimethylbenzene | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: SC-1

Lab Order: U1210333

Collection Date: 10/11/2012 12:00:00 PM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-001

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                             |    |      |   |           |   |                       |
|-----------------------------|----|------|---|-----------|---|-----------------------|
| 1,2-Dibromo-3-chloropropane | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,2-Dibromoethane           | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,2-Dichlorobenzene         | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,3,5-Trimethylbenzene      | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,3-Dichlorobenzene         | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,4-Dichlorobenzene         | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,4-Dioxane                 | ND | 4600 |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Bromochloromethane          | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Cyclohexane                 | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Dichlorodifluoromethane     | ND | 230  | Q | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Freon-113                   | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Isopropylbenzene            | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Methyl Acetate              | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Methyl tert-butyl ether     | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Methylcyclohexane           | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| n-Butylbenzene              | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| n-Propylbenzene             | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| sec-Butylbenzene            | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| tert-Butylbenzene           | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Trichlorofluoromethane      | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Chloromethane               | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Vinyl chloride              | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Bromomethane                | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Chloroethane                | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,1-Dichloroethene          | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Carbon disulfide            | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Methylene chloride          | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| trans-1,2-Dichloroethene    | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,1-Dichloroethane          | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| cis-1,2-Dichloroethene      | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Chloroform                  | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,1,1-Trichloroethane       | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Carbon tetrachloride        | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Benzene                     | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,2-Dichloroethane          | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Trichloroethene             | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,2-Dichloropropane         | ND | 230  |   | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: **8260\_05\_S**

Analyst: **KMP**

|                           |    |     |  |           |   |                       |
|---------------------------|----|-----|--|-----------|---|-----------------------|
| Bromodichloromethane      | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 4-Methyl-2-pentanone      | ND | 460 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| cis-1,3-Dichloropropene   | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Toluene                   | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| trans-1,3-Dichloropropene | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,1,2-Trichloroethane     | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 2-Hexanone                | ND | 460 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Tetrachloroethene         | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Dibromochloromethane      | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Chlorobenzene             | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Ethylbenzene              | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| m,p-Xylene                | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| o-Xylene                  | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Styrene                   | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| Bromoform                 | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 230 |  | µg/Kg-dry | 2 | 10/15/2012 3:28:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

Low quality control recoveries were observed at a lower dilution.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: **PMOIST**

Analyst: **DEB**

|                  |      |        |  |     |   |            |
|------------------|------|--------|--|-----|---|------------|
| Percent Moisture | 13.5 | 0.0100 |  | wt% | 1 | 10/16/2012 |
|------------------|------|--------|--|-----|---|------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

|                         |    |   |  |    |  |                        |
|-------------------------|----|---|--|----|--|------------------------|
| Cooler Temp. at Receipt | <6 | 6 |  | °C |  | 10/11/2012 12:15:00 PM |
|-------------------------|----|---|--|----|--|------------------------|

### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

|                    |    |      |  |           |    |            |
|--------------------|----|------|--|-----------|----|------------|
| 4,4'-DDD           | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDE           | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDT           | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aldrin             | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-BHC          | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-Chlordane    | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1016       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1221       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1232       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1242       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1248       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1254       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1260       | ND | 400  |  | µg/Kg-dry | 10 | 10/18/2012 |
| beta-BHC           | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| delta-BHC          | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Dieldrin           | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan I       | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan II      | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan sulfate | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin             | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin aldehyde    | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin ketone      | ND | 40   |  | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-BHC          | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-Chlordane    | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor         | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor epoxide | ND | 20   |  | µg/Kg-dry | 10 | 10/18/2012 |
| Methoxychlor       | ND | 200  |  | µg/Kg-dry | 10 | 10/18/2012 |
| Toxaphene          | ND | 2000 |  | µg/Kg-dry | 10 | 10/18/2012 |

#### NOTES:

The reporting limits were raised due to matrix interference.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|           |       |      |   |           |   |                       |
|-----------|-------|------|---|-----------|---|-----------------------|
| Aluminum  | 8700  | 5.3  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Barium    | 150   | 32   |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Beryllium | 1.3   | 0.53 |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Cadmium   | 1.0   | 0.53 |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Calcium   | 41000 | 53   |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Chromium  | 16    | 5.3  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Cobalt    | 6.6   | 3.8  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Copper    | 26    | 5.3  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Iron      | 17000 | 3.2  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Lead      | 220   | 11   |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Magnesium | 12000 | 260  |   | mg/Kg-dry | 5 | 10/19/2012 3:15:25 PM |
| Manganese | 400   | 2.1  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Nickel    | 16    | 3.2  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Potassium | 1300  | 53   |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Silver    | ND    | 5.3  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Sodium    | 90    | 53   |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Vanadium  | 21    | 32   | J | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |
| Zinc      | 190   | 1.1  |   | mg/Kg-dry | 1 | 10/16/2012 5:57:22 PM |

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|          |    |     |   |           |    |                        |
|----------|----|-----|---|-----------|----|------------------------|
| Antimony | ND | 5.3 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Arsenic  | ND | 5.3 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Selenium | ND | 3.2 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Thallium | ND | 3.2 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

|         |       |       |   |           |   |                       |
|---------|-------|-------|---|-----------|---|-----------------------|
| Mercury | 0.108 | 0.115 | J | mg/Kg-dry | 1 | 10/16/2012 2:55:35 PM |
|---------|-------|-------|---|-----------|---|-----------------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                            |    |      |   |           |   |                       |
|----------------------------|----|------|---|-----------|---|-----------------------|
| (3+4)-Methylphenol         | ND | 1000 | Q | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 1,2,4,5-Tetrachlorobenzene | ND | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |      |      |   |           |   |                       |
|-----------------------------|------|------|---|-----------|---|-----------------------|
| 1,2,4-Trichlorobenzene      | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,4,5-Trichlorophenol       | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,4,6-Trichlorophenol       | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,4-Dichlorophenol          | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,4-Dimethylphenol          | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,4-Dinitrophenol           | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,4-Dinitrotoluene          | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2,6-Dinitrotoluene          | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2-Chloronaphthalene         | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2-Chlorophenol              | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2-Methylnaphthalene         | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2-Methylphenol              | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2-Nitroaniline              | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 2-Nitrophenol               | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 3,3'-Dichlorobenzidine      | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 3-Nitroaniline              | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4,6-Dinitro-2-methylphenol  | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4-Bromophenyl phenyl ether  | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4-Chloro-3-methylphenol     | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4-Chloroaniline             | ND   | 1000 | Q | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4-Chlorophenyl phenyl ether | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4-Nitroaniline              | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| 4-Nitrophenol               | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Acenaphthene                | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Acenaphthylene              | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Acetophenone                | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Anthracene                  | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Atrazine                    | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Benz(a)anthracene           | 910  | 1000 | J | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Benzaldehyde                | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Benzo(a)pyrene              | 720  | 1000 | J | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Benzo(b)fluoranthene        | 1200 | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Benzo(g,h,i)perylene        | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Benzo(k)fluoranthene        | 530  | 1000 | J | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Biphenyl                    | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Bis(2-chloroethoxy)methane  | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Bis(2-chloroethyl)ether     | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |      |      |   |           |   |                       |
|-----------------------------|------|------|---|-----------|---|-----------------------|
| Bis(2-chloroisopropyl)ether | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Bis(2-ethylhexyl)phthalate  | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Butyl benzyl phthalate      | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Caprolactam                 | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Carbazole                   | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Chrysene                    | 720  | 1000 | J | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Di-n-butyl phthalate        | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Di-n-octyl phthalate        | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Dibenz(a,h)anthracene       | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Dibenzofuran                | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Diethyl phthalate           | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Dimethyl phthalate          | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Fluoranthene                | 1600 | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Fluorene                    | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Hexachlorobenzene           | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Hexachlorobutadiene         | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Hexachlorocyclopentadiene   | ND   | 1000 | Q | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Hexachloroethane            | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Indeno(1,2,3-cd)pyrene      | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Isophorone                  | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| N-Nitrosodi-n-propylamine   | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| N-Nitrosodiphenylamine      | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Naphthalene                 | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Nitrobenzene                | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Pentachlorophenol           | ND   | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Phenanthrene                | 1000 | 1000 | J | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Phenol                      | ND   | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |
| Pyrene                      | 1300 | 1000 |   | µg/Kg-dry | 5 | 10/17/2012 5:27:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: **8260\_05\_S**

Analyst: **KMP**

|                        |    |     |  |           |   |                       |
|------------------------|----|-----|--|-----------|---|-----------------------|
| 1,2,3-Trichlorobenzene | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,2,4-Trichlorobenzene | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,2,4-Trimethylbenzene | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                             |    |      |   |           |   |                       |
|-----------------------------|----|------|---|-----------|---|-----------------------|
| 1,2-Dibromo-3-chloropropane | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,2-Dibromoethane           | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,2-Dichlorobenzene         | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,3,5-Trimethylbenzene      | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,3-Dichlorobenzene         | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,4-Dichlorobenzene         | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,4-Dioxane                 | ND | 4800 |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Bromochloromethane          | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Cyclohexane                 | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Dichlorodifluoromethane     | ND | 240  | Q | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Freon-113                   | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Isopropylbenzene            | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Methyl Acetate              | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Methyl tert-butyl ether     | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Methylcyclohexane           | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| n-Butylbenzene              | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| n-Propylbenzene             | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| sec-Butylbenzene            | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| tert-Butylbenzene           | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Trichlorofluoromethane      | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Chloromethane               | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Vinyl chloride              | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Bromomethane                | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Chloroethane                | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,1-Dichloroethene          | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Carbon disulfide            | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Methylene chloride          | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| trans-1,2-Dichloroethene    | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,1-Dichloroethane          | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| cis-1,2-Dichloroethene      | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Chloroform                  | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,1,1-Trichloroethane       | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Carbon tetrachloride        | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Benzene                     | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,2-Dichloroethane          | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Trichloroethene             | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,2-Dichloropropane         | ND | 240  |   | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: SC-2

Lab Order: U1210333

Collection Date: 10/11/2012 12:15:00 PM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-002

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                           |    |     |  |           |   |                       |
|---------------------------|----|-----|--|-----------|---|-----------------------|
| Bromodichloromethane      | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 4-Methyl-2-pentanone      | ND | 480 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| cis-1,3-Dichloropropene   | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Toluene                   | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| trans-1,3-Dichloropropene | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,1,2-Trichloroethane     | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 2-Hexanone                | ND | 480 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Tetrachloroethene         | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Dibromochloromethane      | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Chlorobenzene             | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Ethylbenzene              | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| m,p-Xylene                | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| o-Xylene                  | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Styrene                   | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| Bromoform                 | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 240 |  | µg/Kg-dry | 2 | 10/15/2012 4:09:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

Low quality control recoveries were observed at a lower dilution.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

|                  |      |        |  |     |   |            |
|------------------|------|--------|--|-----|---|------------|
| Percent Moisture | 16.7 | 0.0100 |  | wt% | 1 | 10/16/2012 |
|------------------|------|--------|--|-----|---|------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

|                         |    |   |  |    |  |                        |
|-------------------------|----|---|--|----|--|------------------------|
| Cooler Temp. at Receipt | <6 | 6 |  | °C |  | 10/11/2012 12:30:00 PM |
|-------------------------|----|---|--|----|--|------------------------|

### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

|                    |     |      |   |           |    |            |
|--------------------|-----|------|---|-----------|----|------------|
| 4,4'-DDD           | 42  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDE           | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDT           | 140 | 100  | Q | µg/Kg-dry | 25 | 10/18/2012 |
| Aldrin             | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-BHC          | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-Chlordane    | 34  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1016       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1221       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1232       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1242       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1248       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1254       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1260       | ND  | 410  |   | µg/Kg-dry | 10 | 10/18/2012 |
| beta-BHC           | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| delta-BHC          | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Dieldrin           | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan I       | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan II      | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan sulfate | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin             | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin aldehyde    | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin ketone      | ND  | 41   |   | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-BHC          | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-Chlordane    | 39  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor         | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor epoxide | ND  | 21   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Methoxychlor       | 310 | 210  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Toxaphene          | ND  | 2100 |   | µg/Kg-dry | 10 | 10/18/2012 |

#### NOTES:

The reporting limits were raised due to the high concentration of target compounds.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|           |       |      |   |           |   |                       |
|-----------|-------|------|---|-----------|---|-----------------------|
| Aluminum  | 7200  | 5.9  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Barium    | 160   | 35   |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Beryllium | ND    | 0.59 |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Cadmium   | ND    | 0.59 |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Calcium   | 72000 | 290  |   | mg/Kg-dry | 5 | 10/19/2012 3:37:51 PM |
| Chromium  | 12    | 5.9  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Cobalt    | 4.2   | 4.2  | J | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Copper    | 28    | 5.9  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Iron      | 13000 | 3.5  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Lead      | 590   | 12   |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Magnesium | 17000 | 290  |   | mg/Kg-dry | 5 | 10/19/2012 3:37:51 PM |
| Manganese | 510   | 2.3  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Nickel    | 12    | 3.5  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Potassium | 1400  | 59   |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Silver    | ND    | 5.9  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Sodium    | 390   | 59   |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Vanadium  | 23    | 35   | J | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |
| Zinc      | 310   | 1.2  |   | mg/Kg-dry | 1 | 10/16/2012 6:04:22 PM |

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|          |     |     |   |           |    |                        |
|----------|-----|-----|---|-----------|----|------------------------|
| Antimony | ND  | 5.9 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Arsenic  | 8.5 | 5.9 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Selenium | ND  | 3.5 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Thallium | ND  | 3.5 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

|         |       |       |   |           |   |                       |
|---------|-------|-------|---|-----------|---|-----------------------|
| Mercury | 0.111 | 0.112 | J | mg/Kg-dry | 1 | 10/16/2012 2:57:50 PM |
|---------|-------|-------|---|-----------|---|-----------------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                            |    |      |   |           |   |                       |
|----------------------------|----|------|---|-----------|---|-----------------------|
| (3+4)-Methylphenol         | ND | 1100 | Q | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 1,2,4,5-Tetrachlorobenzene | ND | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |       |      |   |           |   |                       |
|-----------------------------|-------|------|---|-----------|---|-----------------------|
| 1,2,4-Trichlorobenzene      | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,4,5-Trichlorophenol       | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,4,6-Trichlorophenol       | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,4-Dichlorophenol          | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,4-Dimethylphenol          | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,4-Dinitrophenol           | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,4-Dinitrotoluene          | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2,6-Dinitrotoluene          | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2-Chloronaphthalene         | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2-Chlorophenol              | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2-Methylnaphthalene         | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2-Methylphenol              | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2-Nitroaniline              | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 2-Nitrophenol               | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 3,3'-Dichlorobenzidine      | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 3-Nitroaniline              | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4,6-Dinitro-2-methylphenol  | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4-Bromophenyl phenyl ether  | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4-Chloro-3-methylphenol     | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4-Chloroaniline             | ND    | 1100 | Q | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4-Chlorophenyl phenyl ether | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4-Nitroaniline              | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| 4-Nitrophenol               | ND    | 2000 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Acenaphthene                | 1800  | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Acenaphthylene              | 250   | 1100 | J | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Acetophenone                | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Anthracene                  | 4200  | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Atrazine                    | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Benz(a)anthracene           | 12000 | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Benzaldehyde                | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Benzo(a)pyrene              | 8000  | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Benzo(b)fluoranthene        | 15000 | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Benzo(g,h,i)perylene        | 2800  | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Benzo(k)fluoranthene        | 4100  | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Biphenyl                    | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Bis(2-chloroethoxy)methane  | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |
| Bis(2-chloroethyl)ether     | ND    | 1100 |   | µg/Kg-dry | 5 | 10/17/2012 5:51:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |       |      |   |           |    |                       |
|-----------------------------|-------|------|---|-----------|----|-----------------------|
| Bis(2-chloroisopropyl)ether | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Bis(2-ethylhexyl)phthalate  | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Butyl benzyl phthalate      | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Caprolactam                 | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Carbazole                   | 2500  | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Chrysene                    | 8200  | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Di-n-butyl phthalate        | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Di-n-octyl phthalate        | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Dibenz(a,h)anthracene       | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Dibenzofuran                | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Diethyl phthalate           | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Dimethyl phthalate          | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Fluoranthene                | 19000 | 2100 |   | µg/Kg-dry | 10 | 10/18/2012 8:59:00 PM |
| Fluorene                    | 1900  | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Hexachlorobenzene           | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Hexachlorobutadiene         | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Hexachlorocyclopentadiene   | ND    | 1100 | Q | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Hexachloroethane            | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Indeno(1,2,3-cd)pyrene      | 3600  | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Isophorone                  | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| N-Nitrosodi-n-propylamine   | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| N-Nitrosodiphenylamine      | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Naphthalene                 | 600   | 1100 | J | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Nitrobenzene                | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Pentachlorophenol           | ND    | 2000 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Phenanthrene                | 16000 | 2100 |   | µg/Kg-dry | 10 | 10/18/2012 8:59:00 PM |
| Phenol                      | ND    | 1100 |   | µg/Kg-dry | 5  | 10/17/2012 5:51:00 PM |
| Pyrene                      | 27000 | 2100 |   | µg/Kg-dry | 10 | 10/18/2012 8:59:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: **8260\_05\_S**

Analyst: **KMP**

|                        |    |     |  |           |   |                       |
|------------------------|----|-----|--|-----------|---|-----------------------|
| 1,2,3-Trichlorobenzene | ND | 250 |  | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| 1,2,4-Trichlorobenzene | ND | 250 |  | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| 1,2,4-Trimethylbenzene | ND | 250 |  | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

| Analyses   | Result | Limit | Qual | Units                      | DF | Date Analyzed         |
|--|--------|-------|------|----------------------------|----|-----------------------|
| <b>METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL</b> |        |       |      |                            |    |                       |
|  |        |       |      | Lab Code: <b>8260_05_S</b> |    | Analyst: <b>KMP</b>   |
| 1,2-Dibromo-3-chloropropane                          | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,2-Dibromoethane                                    | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,2-Dichlorobenzene                                  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,3,5-Trimethylbenzene                               | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,3-Dichlorobenzene                                  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,4-Dichlorobenzene                                  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,4-Dioxane  | ND     | 4900  |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Bromochloromethane                                   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Cyclohexane  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Dichlorodifluoromethane                              | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Freon-113  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Isopropylbenzene                                     | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Methyl Acetate                                       | ND     | 250   | Q    | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Methyl tert-butyl ether                              | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Methylcyclohexane                                    | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| n-Butylbenzene                                       | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| n-Propylbenzene                                      | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| sec-Butylbenzene                                     | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| tert-Butylbenzene                                    | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Trichlorofluoromethane                               | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Chloromethane  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Vinyl chloride                                       | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Bromomethane   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Chloroethane   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,1-Dichloroethene                                   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Carbon disulfide                                     | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Methylene chloride                                   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,1-Dichloroethane                                   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| cis-1,2-Dichloroethene                               | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Chloroform   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,1,1-Trichloroethane                                | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Carbon tetrachloride                                 | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Benzene  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,2-Dichloroethane                                   | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| Trichloroethene                                      | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |
| 1,2-Dichloropropane                                  | ND     | 250   |      | µg/Kg-dry                  | 2  | 10/16/2012 4:30:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

|                   |                                      |                          |                        |
|-------------------|--------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Groundwater & Environmental Services | <b>Client Sample ID:</b> | SC-3                   |
| <b>Lab Order:</b> | U1210333                             | <b>Collection Date:</b>  | 10/11/2012 12:30:00 PM |
| <b>Project:</b>   | 0901516 - 1100 Niagara Street        |                          |                        |
| <b>Lab ID:</b>    | U1210333-003                         | <b>Matrix:</b>           | SOIL                   |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                           |    |     |   |           |   |                       |
|---------------------------|----|-----|---|-----------|---|-----------------------|
| Bromodichloromethane      | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| 4-Methyl-2-pentanone      | ND | 490 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| cis-1,3-Dichloropropene   | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Toluene                   | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| trans-1,3-Dichloropropene | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| 1,1,2-Trichloroethane     | ND | 250 | Q | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| 2-Hexanone                | ND | 490 | Q | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Tetrachloroethene         | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Dibromochloromethane      | ND | 250 | Q | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Chlorobenzene             | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Ethylbenzene              | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| m,p-Xylene                | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| o-Xylene                  | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Styrene                   | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| Bromoform                 | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 250 |   | µg/Kg-dry | 2 | 10/16/2012 4:30:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

Internal standard recoveries failed low established QC limits. Subsequent re-analysis yielded similar results.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

|                  |      |        |  |     |   |            |
|------------------|------|--------|--|-----|---|------------|
| Percent Moisture | 19.1 | 0.0100 |  | wt% | 1 | 10/16/2012 |
|------------------|------|--------|--|-----|---|------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

|                         |    |   |  |    |  |                        |
|-------------------------|----|---|--|----|--|------------------------|
| Cooler Temp. at Receipt | <6 | 6 |  | °C |  | 10/11/2012 12:40:00 PM |
|-------------------------|----|---|--|----|--|------------------------|

### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

|                    |      |      |   |           |    |            |
|--------------------|------|------|---|-----------|----|------------|
| 4,4'-DDD           | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDE           | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| 4,4'-DDT           | 57   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aldrin             | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-BHC          | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| alpha-Chlordane    | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1016       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1221       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1232       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1242       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1248       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1254       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Aroclor 1260       | ND   | 380  |   | µg/Kg-dry | 10 | 10/18/2012 |
| beta-BHC           | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| delta-BHC          | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Dieldrin           | 1000 | 95   | Q | µg/Kg-dry | 25 | 10/18/2012 |
| Endosulfan I       | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan II      | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endosulfan sulfate | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin             | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin aldehyde    | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Endrin ketone      | ND   | 38   |   | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-BHC          | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| gamma-Chlordane    | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor         | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Heptachlor epoxide | ND   | 19   |   | µg/Kg-dry | 10 | 10/18/2012 |
| Methoxychlor       | 200  | 190  |   | µg/Kg-dry | 10 | 10/18/2012 |
| Toxaphene          | ND   | 1900 |   | µg/Kg-dry | 10 | 10/18/2012 |

#### NOTES:

The reporting limits were raised due to the high concentration of target compounds.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|           |       |      |   |           |   |                       |
|-----------|-------|------|---|-----------|---|-----------------------|
| Aluminum  | 5500  | 4.3  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Barium    | 130   | 26   |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Beryllium | ND    | 0.43 |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Cadmium   | ND    | 0.43 |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Calcium   | 76000 | 220  |   | mg/Kg-dry | 5 | 10/19/2012 3:46:07 PM |
| Chromium  | 12    | 4.3  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Cobalt    | 3.3   | 3.1  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Copper    | 170   | 4.3  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Iron      | 11000 | 2.6  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Lead      | 120   | 8.6  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Magnesium | 20000 | 220  |   | mg/Kg-dry | 5 | 10/19/2012 3:46:07 PM |
| Manganese | 430   | 1.7  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Nickel    | 11    | 2.6  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Potassium | 1400  | 43   |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Silver    | ND    | 4.3  |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Sodium    | 130   | 43   |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Vanadium  | 13    | 26   | J | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |
| Zinc      | 220   | 0.86 |   | mg/Kg-dry | 1 | 10/16/2012 6:11:19 PM |

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|          |     |     |   |           |    |                        |
|----------|-----|-----|---|-----------|----|------------------------|
| Antimony | ND  | 4.3 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Arsenic  | 4.5 | 4.3 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Selenium | ND  | 2.6 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Thallium | ND  | 2.6 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

|         |      |       |  |           |   |                       |
|---------|------|-------|--|-----------|---|-----------------------|
| Mercury | 1.57 | 0.102 |  | mg/Kg-dry | 1 | 10/16/2012 3:00:19 PM |
|---------|------|-------|--|-----------|---|-----------------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                            |    |     |   |           |   |                       |
|----------------------------|----|-----|---|-----------|---|-----------------------|
| (3+4)-Methylphenol         | ND | 970 | Q | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 1,2,4,5-Tetrachlorobenzene | ND | 970 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |      |      |   |           |   |                       |
|-----------------------------|------|------|---|-----------|---|-----------------------|
| 1,2,4-Trichlorobenzene      | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,4,5-Trichlorophenol       | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,4,6-Trichlorophenol       | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,4-Dichlorophenol          | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,4-Dimethylphenol          | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,4-Dinitrophenol           | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,4-Dinitrotoluene          | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2,6-Dinitrotoluene          | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2-Chloronaphthalene         | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2-Chlorophenol              | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2-Methylnaphthalene         | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2-Methylphenol              | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2-Nitroaniline              | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 2-Nitrophenol               | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 3,3'-Dichlorobenzidine      | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 3-Nitroaniline              | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4,6-Dinitro-2-methylphenol  | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4-Bromophenyl phenyl ether  | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4-Chloro-3-methylphenol     | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4-Chloroaniline             | ND   | 970  | Q | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4-Chlorophenyl phenyl ether | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4-Nitroaniline              | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| 4-Nitrophenol               | ND   | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Acenaphthene                | 810  | 970  | J | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Acenaphthylene              | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Acetophenone                | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Anthracene                  | 1900 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Atrazine                    | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Benz(a)anthracene           | 6400 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Benzaldehyde                | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Benzo(a)pyrene              | 4600 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Benzo(b)fluoranthene        | 8600 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Benzo(g,h,i)perylene        | 1700 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Benzo(k)fluoranthene        | 2700 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Biphenyl                    | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Bis(2-chloroethoxy)methane  | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Bis(2-chloroethyl)ether     | ND   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |       |      |   |           |   |                       |
|-----------------------------|-------|------|---|-----------|---|-----------------------|
| Bis(2-chloroisopropyl)ether | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Bis(2-ethylhexyl)phthalate  | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Butyl benzyl phthalate      | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Caprolactam                 | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Carbazole                   | 980   | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Chrysene                    | 4700  | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Di-n-butyl phthalate        | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Di-n-octyl phthalate        | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Dibenz(a,h)anthracene       | 560   | 970  | J | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Dibenzofuran                | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Diethyl phthalate           | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Dimethyl phthalate          | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Fluoranthene                | 11000 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Fluorene                    | 940   | 970  | J | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Hexachlorobenzene           | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Hexachlorobutadiene         | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Hexachlorocyclopentadiene   | ND    | 970  | Q | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Hexachloroethane            | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Indeno(1,2,3-cd)pyrene      | 2200  | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Isophorone                  | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| N-Nitrosodi-n-propylamine   | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| N-Nitrosodiphenylamine      | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Naphthalene                 | 250   | 970  | J | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Nitrobenzene                | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Pentachlorophenol           | ND    | 1900 |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Phenanthrene                | 8200  | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Phenol                      | ND    | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |
| Pyrene                      | 16000 | 970  |   | µg/Kg-dry | 5 | 10/17/2012 7:03:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                        |    |     |  |           |   |                       |
|------------------------|----|-----|--|-----------|---|-----------------------|
| 1,2,3-Trichlorobenzene | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,2,4-Trichlorobenzene | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,2,4-Trimethylbenzene | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

**METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL**

Lab Code: **8260\_05\_S**

Analyst: **KMP**

|                             |    |      |   |           |   |                       |
|-----------------------------|----|------|---|-----------|---|-----------------------|
| 1,2-Dibromo-3-chloropropane | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,2-Dibromoethane           | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,2-Dichlorobenzene         | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,3,5-Trimethylbenzene      | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,3-Dichlorobenzene         | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,4-Dichlorobenzene         | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,4-Dioxane                 | ND | 4600 |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Bromochloromethane          | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Cyclohexane                 | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Dichlorodifluoromethane     | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Freon-113                   | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Isopropylbenzene            | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Methyl Acetate              | ND | 230  | Q | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Methyl tert-butyl ether     | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Methylcyclohexane           | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| n-Butylbenzene              | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| n-Propylbenzene             | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| sec-Butylbenzene            | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| tert-Butylbenzene           | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Trichlorofluoromethane      | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Chloromethane               | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Vinyl chloride              | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Bromomethane                | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Chloroethane                | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,1-Dichloroethene          | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Carbon disulfide            | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Methylene chloride          | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| trans-1,2-Dichloroethene    | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,1-Dichloroethane          | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| cis-1,2-Dichloroethene      | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Chloroform                  | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,1,1-Trichloroethane       | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Carbon tetrachloride        | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Benzene                     | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,2-Dichloroethane          | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Trichloroethene             | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,2-Dichloropropane         | ND | 230  |   | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: SC-4

Lab Order: U1210333

Collection Date: 10/11/2012 12:40:00 PM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-004

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                           |    |     |  |           |   |                       |
|---------------------------|----|-----|--|-----------|---|-----------------------|
| Bromodichloromethane      | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 4-Methyl-2-pentanone      | ND | 460 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| cis-1,3-Dichloropropene   | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Toluene                   | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| trans-1,3-Dichloropropene | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,1,2-Trichloroethane     | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 2-Hexanone                | ND | 460 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Tetrachloroethene         | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Dibromochloromethane      | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Chlorobenzene             | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Ethylbenzene              | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| m,p-Xylene                | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| o-Xylene                  | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Styrene                   | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| Bromoform                 | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 230 |  | µg/Kg-dry | 2 | 10/18/2012 2:03:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

Low quality control recoveries were observed at a lower dilution.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

|                  |      |        |  |     |   |            |
|------------------|------|--------|--|-----|---|------------|
| Percent Moisture | 12.7 | 0.0100 |  | wt% | 1 | 10/16/2012 |
|------------------|------|--------|--|-----|---|------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

|                         |    |   |  |    |  |                        |
|-------------------------|----|---|--|----|--|------------------------|
| Cooler Temp. at Receipt | <6 | 6 |  | °C |  | 10/11/2012 10:20:00 AM |
|-------------------------|----|---|--|----|--|------------------------|

### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

|                    |       |      |   |           |      |            |
|--------------------|-------|------|---|-----------|------|------------|
| 4,4'-DDD           | 240   | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| 4,4'-DDE           | 1500  | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| 4,4'-DDT           | 3600  | 460  |   | µg/Kg-dry | 100  | 10/18/2012 |
| Aldrin             | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| alpha-BHC          | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| alpha-Chlordane    | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1016       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1221       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1232       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1242       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1248       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1254       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| Aroclor 1260       | ND    | 1200 |   | µg/Kg-dry | 25   | 10/18/2012 |
| beta-BHC           | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| delta-BHC          | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| Dieldrin           | 12000 | 4600 |   | µg/Kg-dry | 1000 | 10/18/2012 |
| Endosulfan I       | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| Endosulfan II      | ND    | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| Endosulfan sulfate | ND    | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| Endrin             | ND    | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| Endrin aldehyde    | ND    | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| Endrin ketone      | ND    | 120  |   | µg/Kg-dry | 25   | 10/18/2012 |
| gamma-BHC          | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| gamma-Chlordane    | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| Heptachlor         | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| Heptachlor epoxide | ND    | 60   |   | µg/Kg-dry | 25   | 10/18/2012 |
| Methoxychlor       | 990   | 600  | Q | µg/Kg-dry | 25   | 10/18/2012 |
| Toxaphene          | ND    | 6000 |   | µg/Kg-dry | 25   | 10/18/2012 |

#### NOTES:

The reporting limits were raised due to the high concentration of target compounds.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|           |       |     |  |           |   |                       |
|-----------|-------|-----|--|-----------|---|-----------------------|
| Aluminum  | 5600  | 33  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Barium    | 260   | 200 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Beryllium | ND    | 3.3 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Cadmium   | 3.6   | 3.3 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Calcium   | 74000 | 330 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Chromium  | 43    | 33  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Cobalt    | ND    | 24  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Copper    | 460   | 33  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Iron      | 34000 | 20  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Lead      | 2200  | 66  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Magnesium | 7300  | 330 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Manganese | 360   | 13  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Nickel    | 61    | 20  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Potassium | 950   | 330 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Silver    | ND    | 33  |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Sodium    | 1200  | 330 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Vanadium  | ND    | 200 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |
| Zinc      | 1400  | 6.6 |  | mg/Kg-dry | 5 | 10/16/2012 6:18:19 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|          |     |     |   |           |    |                        |
|----------|-----|-----|---|-----------|----|------------------------|
| Antimony | ND  | 6.6 | Q | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Arsenic  | 9.7 | 6.6 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Selenium | ND  | 4.0 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |
| Thallium | ND  | 4.0 |   | mg/Kg-dry | 10 | 10/18/2012 10:56:23 AM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

|         |      |       |  |           |   |                       |
|---------|------|-------|--|-----------|---|-----------------------|
| Mercury | 12.6 | 0.656 |  | mg/Kg-dry | 5 | 10/16/2012 3:52:35 PM |
|---------|------|-------|--|-----------|---|-----------------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

| Analyses  | Result | Limit | Qual                       | Units     | DF                 | Date Analyzed         |
|---|--------|-------|----------------------------|-----------|--------------------|-----------------------|
| <b>TCL-SEMIVOLATILE ORGANICS BY EPA 8270D</b>             |        |       |                            |           |                    |                       |
| [Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550_BNA |        |       | Lab Code: <b>8270_05_S</b> |           | Analyst: <b>LD</b> |                       |
| Prep Date: 10/16/2012 11:08:23 AM                         |        |       | Prep By: DMD]              |           |                    |                       |
| (3+4)-Methylphenol  | ND     | 48000 | Q                          | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 1,2,4,5-Tetrachlorobenzene                                | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 1,2,4-Trichlorobenzene                                    | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,4,5-Trichlorophenol                                     | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,4,6-Trichlorophenol                                     | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,4-Dichlorophenol  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,4-Dimethylphenol  | 9700   | 48000 | J                          | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,4-Dinitrophenol   | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,4-Dinitrotoluene  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2,6-Dinitrotoluene  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2-Chloronaphthalene                                       | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2-Chlorophenol  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2-Methylnaphthalene                                       | 83000  | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2-Methylphenol  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2-Nitroaniline  | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 2-Nitrophenol   | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 3,3'-Dichlorobenzidine                                    | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 3-Nitroaniline  | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4,6-Dinitro-2-methylphenol                                | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4-Bromophenyl phenyl ether                                | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4-Chloro-3-methylphenol                                   | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4-Chloroaniline   | ND     | 48000 | Q                          | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4-Chlorophenyl phenyl ether                               | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4-Nitroaniline  | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| 4-Nitrophenol   | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Acenaphthene  | 120000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Acenaphthylene  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Acetophenone  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Anthracene  | 200000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Atrazine  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Benz(a)anthracene   | 250000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Benzaldehyde  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Benzo(a)pyrene  | 170000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Benzo(b)fluoranthene                                      | 240000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Benzo(g,h,i)perylene                                      | 63000  | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Benzo(k)fluoranthene                                      | 110000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Biphenyl  | 19000  | 48000 | J                          | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

| Analyses  | Result | Limit | Qual                       | Units     | DF                 | Date Analyzed         |
|---|--------|-------|----------------------------|-----------|--------------------|-----------------------|
| <b>TCL-SEMIVOLATILE ORGANICS BY EPA 8270D</b>             |        |       |                            |           |                    |                       |
| [Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550_BNA |        |       | Lab Code: <b>8270_05_S</b> |           | Analyst: <b>LD</b> |                       |
| Prep Date: 10/16/2012 11:08:23 AM                         |        |       | Prep By: DMD]              |           |                    |                       |
| Bis(2-chloroethoxy)methane                                | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Bis(2-chloroethyl)ether                                   | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Bis(2-chloroisopropyl)ether                               | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Bis(2-ethylhexyl)phthalate                                | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Butyl benzyl phthalate                                    | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Caprolactam   | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Carbazole   | 80000  | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Chrysene  | 170000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Di-n-butyl phthalate                                      | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Di-n-octyl phthalate                                      | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Dibenz(a,h)anthracene                                     | 20000  | 48000 | J                          | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Dibenzofuran  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Diethyl phthalate   | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Dimethyl phthalate  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Fluoranthene  | 460000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Fluorene  | 150000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Hexachlorobenzene   | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Hexachlorobutadiene                                       | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Hexachlorocyclopentadiene                                 | ND     | 48000 | Q                          | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Hexachloroethane  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Indeno(1,2,3-cd)pyrene                                    | 76000  | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Isophorone  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| N-Nitrosodi-n-propylamine                                 | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| N-Nitrosodiphenylamine                                    | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Naphthalene   | 200000 | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Nitrobenzene  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Pentachlorophenol   | ND     | 93000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Phenanthrene  | 800000 | 96000 |                            | µg/Kg-dry | 200                | 10/18/2012 9:23:00 PM |
| Phenol  | ND     | 48000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:27:00 PM |
| Pyrene  | 610000 | 96000 |                            | µg/Kg-dry | 200                | 10/18/2012 9:23:00 PM |

**NOTES:**

The reporting limits were raised due to matrix interference.

**METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL**

Lab Code: **8260\_05\_S** Analyst: **KMP**

|                        |    |     |  |           |   |                       |
|------------------------|----|-----|--|-----------|---|-----------------------|
| 1,2,3-Trichlorobenzene | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
|------------------------|----|-----|--|-----------|---|-----------------------|

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

| Analyses   | Result | Limit | Qual | Units                      | DF | Date Analyzed         |
|--|--------|-------|------|----------------------------|----|-----------------------|
| <b>METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL</b> |        |       |      |                            |    |                       |
|  |        |       |      | Lab Code: <b>8260_05_S</b> |    | Analyst: <b>KMP</b>   |
| 1,2,4-Trichlorobenzene                               | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,2,4-Trimethylbenzene                               | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,2-Dibromo-3-chloropropane                          | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,2-Dibromoethane                                    | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,2-Dichlorobenzene                                  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,3,5-Trimethylbenzene                               | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,3-Dichlorobenzene                                  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,4-Dichlorobenzene                                  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,4-Dioxane  | ND     | 5600  |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Bromochloromethane                                   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Cyclohexane  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Dichlorodifluoromethane                              | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Freon-113  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Isopropylbenzene                                     | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Methyl Acetate                                       | ND     | 280   | Q    | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Methyl tert-butyl ether                              | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Methylcyclohexane                                    | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| n-Butylbenzene                                       | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| n-Propylbenzene                                      | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| sec-Butylbenzene                                     | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| tert-Butylbenzene                                    | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Trichlorofluoromethane                               | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Chloromethane  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Vinyl chloride                                       | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Bromomethane   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Chloroethane   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,1-Dichloroethene                                   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Carbon disulfide                                     | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Methylene chloride                                   | 15     | 280   | J    | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,1-Dichloroethane                                   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| cis-1,2-Dichloroethene                               | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Chloroform   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,1,1-Trichloroethane                                | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Carbon tetrachloride                                 | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| Benzene  | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |
| 1,2-Dichloroethane                                   | ND     | 280   |      | µg/Kg-dry                  | 2  | 10/18/2012 2:44:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

|                           |    |     |  |           |   |                       |
|---------------------------|----|-----|--|-----------|---|-----------------------|
| Trichloroethene           | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| 1,2-Dichloropropane       | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Bromodichloromethane      | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| 4-Methyl-2-pentanone      | ND | 560 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| cis-1,3-Dichloropropene   | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Toluene                   | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| trans-1,3-Dichloropropene | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| 1,1,2-Trichloroethane     | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| 2-Hexanone                | ND | 560 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Tetrachloroethene         | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Dibromochloromethane      | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Chlorobenzene             | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Ethylbenzene              | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| m,p-Xylene                | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| o-Xylene                  | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Styrene                   | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| Bromoform                 | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 280 |  | µg/Kg-dry | 2 | 10/18/2012 2:44:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

Internal standard recoveries failed low established QC limits. Subsequent re-analysis yielded similar results.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

|                  |      |        |  |     |   |            |
|------------------|------|--------|--|-----|---|------------|
| Percent Moisture | 29.0 | 0.0100 |  | wt% | 1 | 10/16/2012 |
|------------------|------|--------|--|-----|---|------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

|                         |    |   |  |    |  |                        |
|-------------------------|----|---|--|----|--|------------------------|
| Cooler Temp. at Receipt | <6 | 6 |  | °C |  | 10/11/2012 10:10:00 AM |
|-------------------------|----|---|--|----|--|------------------------|

### PEST/PCB WASTEWATERS BY EPA 8081A/8082

Lab Code: **8081A/8082\_W**

Analyst: **EA**

[AqPrep Sep Funnel: Pest/PCB by EPA 3510C Prep Code: 3510\_PEST Prep Date: 10/17/2012 8:12:23 AM Prep By: DMD]

|                    |      |      |  |      |   |            |
|--------------------|------|------|--|------|---|------------|
| 4,4'-DDD           | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| 4,4'-DDE           | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| 4,4'-DDT           | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Aldrin             | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| alpha-BHC          | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| alpha-Chlordane    | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1016       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1221       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1232       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1242       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1248       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1254       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| Aroclor 1260       | ND   | 2.1  |  | µg/L | 2 | 10/18/2012 |
| beta-BHC           | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| delta-BHC          | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Dieldrin           | 0.51 | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Endosulfan I       | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| Endosulfan II      | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Endosulfan sulfate | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Endrin             | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Endrin aldehyde    | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| Endrin ketone      | ND   | 0.21 |  | µg/L | 2 | 10/18/2012 |
| gamma-BHC          | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| gamma-Chlordane    | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| Heptachlor         | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| Heptachlor epoxide | ND   | 0.11 |  | µg/L | 2 | 10/18/2012 |
| Methoxychlor       | ND   | 1.1  |  | µg/L | 2 | 10/18/2012 |
| Toxaphene          | ND   | 11   |  | µg/L | 2 | 10/18/2012 |

#### NOTES:

The reporting limits were raised due to matrix interference.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### ICP METALS, TOTAL BY EPA 200.7

Lab Code: **200.7WT**

Analyst: **MRA**

[AqPrep ICP - EPA 3005A Prep Code: 200.7TPR Prep Date: 10/15/2012 8:28:09 AM Prep By: ARO]

|           |      |       |    |      |   |                        |
|-----------|------|-------|----|------|---|------------------------|
| Aluminum  | ND   | 0.25  |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Barium    | 1.0  | 1.5   | QJ | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Beryllium | ND   | 0.025 |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Cadmium   | ND   | 0.025 |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Calcium   | 310  | 2.5   |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Chromium  | ND   | 0.25  |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Cobalt    | ND   | 0.25  |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Copper    | ND   | 0.10  |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Iron      | ND   | 0.15  | Q  | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Lead*     | ND   | 0.015 |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Magnesium | 95   | 2.5   | Q  | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Manganese | 0.15 | 0.10  |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Nickel    | ND   | 0.15  |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Potassium | 7.4  | 2.5   |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Silver    | ND   | 0.050 |    | mg/L | 1 | 10/16/2012 11:12:40 AM |
| Sodium    | 240  | 2.5   |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Vanadium  | ND   | 1.5   |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |
| Zinc      | ND   | 0.050 |    | mg/L | 5 | 10/16/2012 3:04:01 PM  |

**NOTES:**

The reporting limits were raised due to matrix interference.  
 Sample preserved in lab on 10/12/12 at 9:44am.

### ICP-MS METALS, TOTALS BY EPA 200.8

Lab Code: **200.8**

Analyst: **LET**

[AqPrep ICP-MS - EPA 3005A Prep Code: 200.8TPR Prep Date: 10/15/2012 9:03:15 AM Prep By: ARO]

|          |       |        |  |      |   |                        |
|----------|-------|--------|--|------|---|------------------------|
| Antimony | ND    | 0.015  |  | mg/L | 5 | 10/19/2012 11:52:00 AM |
| Arsenic  | ND    | 0.050  |  | mg/L | 5 | 10/19/2012 11:52:00 AM |
| Lead     | 0.014 | 0.0050 |  | mg/L | 5 | 10/19/2012 11:52:00 AM |
| Selenium | ND    | 0.025  |  | mg/L | 5 | 10/19/2012 11:52:00 AM |
| Thallium | ND    | 0.015  |  | mg/L | 5 | 10/19/2012 11:52:00 AM |

**NOTES:**

The reporting limits were raised due to matrix interference.  
 Analytical Note: Sample preserved in laboratory on 10/12/12 at 9:44AM.

### TOTAL MERCURY WATERS BY EPA 245.2

Lab Code: **245.2WT**

Analyst: **LET**

[Hg Total Prep by 245.2 Prep Code: 245.2TPR Prep Date: 10/16/2012 9:20:02 AM Prep By: ARO]

|         |    |        |  |      |   |                       |
|---------|----|--------|--|------|---|-----------------------|
| Mercury | ND | 0.0004 |  | mg/L | 1 | 10/16/2012 3:23:38 PM |
|---------|----|--------|--|------|---|-----------------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

| Analyses   | Result | Limit | Qual                       | Units | DF                 | Date Analyzed         |
|--|--------|-------|----------------------------|-------|--------------------|-----------------------|
| <b>TCL-SEMIVOLATILE ORGANICS BY EPA 8270D</b>  |        |       |                            |       |                    |                       |
|  |        |       | Lab Code: <b>8270_05_W</b> |       | Analyst: <b>LD</b> |                       |
| [AqPrep Sep Funnel:BNA by EPA 3510C Prep Code: 3510_BNA Prep Date: 10/12/2012 1:25:46 PM Prep By: DMD] |        |       |                            |       |                    |                       |
| (3+4)-Methylphenol   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 1,2,4,5-Tetrachlorobenzene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 1,2,4-Trichlorobenzene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,4,5-Trichlorophenol  | ND     | 11    |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,4,6-Trichlorophenol  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,4-Dichlorophenol   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,4-Dimethylphenol   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,4-Dinitrophenol  | ND     | 11    |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,4-Dinitrotoluene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2,6-Dinitrotoluene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2-Chloronaphthalene  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2-Chlorophenol   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2-Methylnaphthalene  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2-Methylphenol   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2-Nitroaniline   | ND     | 11    |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 2-Nitrophenol  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 3,3'-Dichlorobenzidine   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 3-Nitroaniline   | ND     | 11    |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4,6-Dinitro-2-methylphenol   | ND     | 11    |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4-Bromophenyl phenyl ether   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4-Chloro-3-methylphenol  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4-Chloroaniline  | ND     | 5.5   | Q                          | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4-Chlorophenyl phenyl ether  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4-Nitroaniline   | ND     | 11    |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| 4-Nitrophenol  | ND     | 11    | Q                          | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Acenaphthene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Acenaphthylene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Acetophenone   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Anthracene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Atrazine   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Benz(a)anthracene  | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Benzaldehyde   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Benzo(a)pyrene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Benzo(b)fluoranthene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Benzo(g,h,i)perylene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Benzo(k)fluoranthene   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |
| Biphenyl   | ND     | 5.5   |                            | µg/L  | 1                  | 10/15/2012 8:33:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_W

Analyst: LD

[AqPrep Sep Funnel:BNA by EPA 3510C Prep Code: 3510\_BNA Prep Date: 10/12/2012 1:25:46 PM Prep By: DMD]

|                             |    |     |   |      |   |                       |
|-----------------------------|----|-----|---|------|---|-----------------------|
| Bis(2-chloroethoxy)methane  | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Bis(2-chloroethyl)ether     | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Bis(2-chloroisopropyl)ether | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Bis(2-ethylhexyl)phthalate  | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Butyl benzyl phthalate      | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Caprolactam                 | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Carbazole                   | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Chrysene                    | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Di-n-butyl phthalate        | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Di-n-octyl phthalate        | ND | 5.5 | Q | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Dibenz(a,h)anthracene       | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Dibenzofuran                | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Diethyl phthalate           | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Dimethyl phthalate          | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Fluoranthene                | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Fluorene                    | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Hexachlorobenzene           | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Hexachlorobutadiene         | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Hexachlorocyclopentadiene   | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Hexachloroethane            | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Indeno(1,2,3-cd)pyrene      | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Isophorone                  | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| N-Nitrosodi-n-propylamine   | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| N-Nitrosodiphenylamine      | ND | 5.5 | Q | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Naphthalene                 | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Nitrobenzene                | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Pentachlorophenol           | ND | 11  |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Phenanthrene                | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Phenol                      | ND | 5.5 | Q | µg/L | 1 | 10/15/2012 8:33:00 PM |
| Pyrene                      | ND | 5.5 |   | µg/L | 1 | 10/15/2012 8:33:00 PM |

### METHOD 5030/8260B 2005 LIST VOLATILES - WATER

Lab Code: 8260\_05\_W

Analyst: EMZ

|                           |    |    |  |      |   |                       |
|---------------------------|----|----|--|------|---|-----------------------|
| 1,1,1-Trichloroethane     | ND | 25 |  | µg/L | 5 | 10/17/2012 9:49:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 25 |  | µg/L | 5 | 10/17/2012 9:49:00 PM |
| 1,1,2-Trichloroethane     | ND | 25 |  | µg/L | 5 | 10/17/2012 9:49:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

| Analyses   | Result | Limit | Qual                       | Units               | DF | Date Analyzed         |
|--|--------|-------|----------------------------|---------------------|----|-----------------------|
| <b>METHOD 5030/8260B 2005 LIST VOLATILES - WATER</b> |        |       |                            |                     |    |                       |
|  |        |       | Lab Code: <b>8260_05_W</b> | Analyst: <b>EMZ</b> |    |                       |
| 1,1-Dichloroethane                                   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,1-Dichloroethene                                   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2,3-Trichlorobenzene                               | ND     | 25    | Q                          | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2,4-Trichlorobenzene                               | ND     | 25    | Q                          | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2,4-Trimethylbenzene                               | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2-Dibromo-3-chloropropane                          | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2-Dibromoethane                                    | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2-Dichlorobenzene                                  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2-Dichloroethane                                   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,2-Dichloropropane                                  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,3,5-Trimethylbenzene                               | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,3-Dichlorobenzene                                  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,4-Dichlorobenzene                                  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 1,4-Dioxane  | ND     | 500   |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 2-Butanone   | ND     | 50    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 2-Hexanone   | ND     | 50    | Q                          | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| 4-Methyl-2-pentanone                                 | ND     | 50    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Acetone  | 93     | 50    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Benzene  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Bromochloromethane                                   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Bromodichloromethane                                 | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Bromoform  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Bromomethane   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Carbon disulfide                                     | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Carbon tetrachloride                                 | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Chlorobenzene  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Chloroethane   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Chloroform   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Chloromethane  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| cis-1,2-Dichloroethene                               | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| cis-1,3-Dichloropropene                              | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Cyclohexane  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Dibromochloromethane                                 | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Dichlorodifluoromethane                              | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Ethylbenzene   | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Freon-113  | ND     | 25    |                            | µg/L                | 5  | 10/17/2012 9:49:00 PM |
| Isopropylbenzene                                     | ND     | 25    | Q                          | µg/L                | 5  | 10/17/2012 9:49:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: MSW-6

Lab Order: U1210333

Collection Date: 10/11/2012 10:10:00 AM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-006

Matrix: WATER

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### METHOD 5030/8260B 2005 LIST VOLATILES - WATER

Lab Code: 8260\_05\_W

Analyst: EMZ

|                           |    |    |   |      |   |                       |
|---------------------------|----|----|---|------|---|-----------------------|
| m,p-Xylene                | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Methyl Acetate            | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Methyl tert-butyl ether   | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Methylcyclohexane         | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Methylene chloride        | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| n-Butylbenzene            | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| n-Propylbenzene           | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| o-Xylene                  | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| sec-Butylbenzene          | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Styrene                   | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| tert-Butylbenzene         | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Tetrachloroethene         | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Toluene                   | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| trans-1,2-Dichloroethene  | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| trans-1,3-Dichloropropene | ND | 25 | Q | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Trichloroethene           | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Trichlorofluoromethane    | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |
| Vinyl chloride            | ND | 25 |   | µg/L | 5 | 10/17/2012 9:49:00 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

Sample foamed during purging procedure.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-007

**Client Sample ID:** RS-7  
**Collection Date:** 10/11/2012 10:45:00 AM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

|                         |    |   |  |    |  |                        |
|-------------------------|----|---|--|----|--|------------------------|
| Cooler Temp. at Receipt | <6 | 6 |  | °C |  | 10/11/2012 10:45:00 AM |
|-------------------------|----|---|--|----|--|------------------------|

### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|           |       |      |   |           |    |                       |
|-----------|-------|------|---|-----------|----|-----------------------|
| Aluminum  | 1500  | 4.9  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Barium    | 640   | 29   |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Beryllium | ND    | 0.49 |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Cadmium   | 230   | 0.49 |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Calcium   | 42000 | 49   |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Chromium  | 11    | 4.9  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Cobalt    | ND    | 3.5  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Copper    | 31    | 4.9  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Iron      | 9400  | 2.9  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Lead      | 59000 | 250  | Q | mg/Kg-dry | 25 | 10/20/2012 3:22:13 PM |
| Magnesium | 8200  | 49   |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Manganese | 1100  | 2.0  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Nickel    | 6.1   | 2.9  |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Potassium | 590   | 49   |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Silver    | 4.2   | 4.9  | J | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Sodium    | 10000 | 49   |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Vanadium  | 34    | 29   |   | mg/Kg-dry | 1  | 10/16/2012 6:25:04 PM |
| Zinc      | 75000 | 25   | Q | mg/Kg-dry | 25 | 10/20/2012 3:22:13 PM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

|          |    |     |   |           |    |                        |
|----------|----|-----|---|-----------|----|------------------------|
| Antimony | ND | 12  | Q | mg/Kg-dry | 25 | 10/18/2012 10:56:23 AM |
| Arsenic  | 66 | 12  |   | mg/Kg-dry | 25 | 10/18/2012 10:56:23 AM |
| Selenium | 35 | 7.4 |   | mg/Kg-dry | 25 | 10/18/2012 10:56:23 AM |
| Thallium | ND | 7.4 |   | mg/Kg-dry | 25 | 10/18/2012 10:56:23 AM |

#### NOTES:

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-007

**Client Sample ID:** RS-7  
**Collection Date:** 10/11/2012 10:45:00 AM  
**Matrix:** SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: 7471A

Analyst: LET

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]  
 Mercury 6.91 0.474 mg/Kg-dry 5 10/16/2012 3:55:29 PM

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

|                             |    |        |   |           |     |                       |
|-----------------------------|----|--------|---|-----------|-----|-----------------------|
| (3+4)-Methylphenol          | ND | 70000  | Q | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 1,2,4,5-Tetrachlorobenzene  | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 1,2,4-Trichlorobenzene      | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,4,5-Trichlorophenol       | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,4,6-Trichlorophenol       | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,4-Dichlorophenol          | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,4-Dimethylphenol          | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,4-Dinitrophenol           | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,4-Dinitrotoluene          | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2,6-Dinitrotoluene          | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2-Chloronaphthalene         | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2-Chlorophenol              | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2-Methylnaphthalene         | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2-Methylphenol              | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2-Nitroaniline              | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 2-Nitrophenol               | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 3,3'-Dichlorobenzidine      | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 3-Nitroaniline              | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4,6-Dinitro-2-methylphenol  | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4-Bromophenyl phenyl ether  | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4-Chloro-3-methylphenol     | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4-Chloroaniline             | ND | 70000  | Q | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4-Chlorophenyl phenyl ether | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4-Nitroaniline              | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| 4-Nitrophenol               | ND | 140000 |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Acenaphthene                | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Acenaphthylene              | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Acetophenone                | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Anthracene                  | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Atrazine                    | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Benz(a)anthracene           | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |
| Benzaldehyde                | ND | 70000  |   | µg/Kg-dry | 100 | 10/17/2012 7:50:00 PM |

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-007

**Client Sample ID:** RS-7  
**Collection Date:** 10/11/2012 10:45:00 AM  
**Matrix:** SOIL

| Analyses  | Result | Limit  | Qual                       | Units     | DF                 | Date Analyzed         |
|---|--------|--------|----------------------------|-----------|--------------------|-----------------------|
| <b>TCL-SEMIVOLATILE ORGANICS BY EPA 8270D</b>             |        |        |                            |           |                    |                       |
| [Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550_BNA |        |        | Lab Code: <b>8270_05_S</b> |           | Analyst: <b>LD</b> |                       |
| Prep Date: 10/16/2012 11:08:23 AM                         |        |        | Prep By: DMD]              |           |                    |                       |
| Benzo(a)pyrene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Benzo(b)fluoranthene                                      | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Benzo(g,h,i)perylene                                      | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Benzo(k)fluoranthene                                      | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Biphenyl  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Bis(2-chloroethoxy)methane                                | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Bis(2-chloroethyl)ether                                   | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Bis(2-chloroisopropyl)ether                               | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Bis(2-ethylhexyl)phthalate                                | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Butyl benzyl phthalate                                    | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Caprolactam   | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Carbazole   | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Chrysene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Di-n-butyl phthalate                                      | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Di-n-octyl phthalate                                      | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Dibenz(a,h)anthracene                                     | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Dibenzofuran  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Diethyl phthalate   | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Dimethyl phthalate  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Fluoranthene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Fluorene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Hexachlorobenzene   | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Hexachlorobutadiene                                       | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Hexachlorocyclopentadiene                                 | ND     | 70000  | Q                          | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Hexachloroethane  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Indeno(1,2,3-cd)pyrene                                    | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Isophorone  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| N-Nitrosodi-n-propylamine                                 | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| N-Nitrosodiphenylamine                                    | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Naphthalene   | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Nitrobenzene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Pentachlorophenol   | ND     | 140000 |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Phenanthrene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Phenol  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |
| Pyrene  | ND     | 70000  |                            | µg/Kg-dry | 100                | 10/17/2012 7:50:00 PM |

**NOTES:**

The reporting limits were raised due to matrix interference.

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: RS-7

Lab Order: U1210333

Collection Date: 10/11/2012 10:45:00 AM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-007

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

### PERCENT MOISTURE BY ASTM D2216

Lab Code: P~~MO~~IST

Analyst: DEB

|                  |      |        |  |     |   |            |
|------------------|------|--------|--|-----|---|------------|
| Percent Moisture | 2.36 | 0.0100 |  | wt% | 1 | 10/16/2012 |
|------------------|------|--------|--|-----|---|------------|

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits