



**Operation, Maintenance and Monitoring Report  
July 2012**

**NOW Corporation  
Site 3-14-008**

**Work Assignment No.  
D007626-25**

Prepared for:

SUPERFUND STANDBY PROGRAM  
New York State  
Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233

Prepared by:

AECOM Technical Services Northeast, Inc.  
40 British American Boulevard  
Latham, New York 12110

September 2012

September 19, 2012

Mr. Carl Hoffman, P.E.  
NYSDEC Division of Environmental Remediation  
625 Broadway, 12<sup>th</sup> Floor  
Albany, New York 12233-7013

**Re: NOW Corporation - Site #3-14-008  
O&M Summary Report: "July" 2012**

Dear Mr. Hoffman:

This monthly summary report describes the operation, monitoring and maintenance (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 36-day period (**June 12– July 18, 2012**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 777,100 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 21,586 gallons per day (gpd), compared to 36,050 gpd in the prior reporting period. In the previous reporting period, high static water levels after months of downtime contributed to the larger discharge rate over the 6-day treatment period.

As of the last day of the reporting period, a total of 87,536,700 gallons of groundwater had been recovered and treated by the system since it became operational in February 1998.

Table 1 summarizes influent and effluent analytical data for water samples collected on July 18. **Effluent limitations were not exceeded this sampling period.** A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data as recorded on the sampling date. The effluent samples were collected while the VFD was operating at 60 Hz.

AECOM made 4 site visits during the period to conduct the required system inspection, perform scheduled and unscheduled maintenance, and to collect water samples. The June 12, 18, and 20, 2012 service visits were described in the previous report. Details for the current period follow:

July 18 – AECOM was onsite in response to an alarm condition that was associated with the air stripper blower. AECOM inspected and cleaned the blower flow switch and observed proper system operation. AECOM also increased the blower speed to 60 Hz from 55 Hz. AECOM collected effluent, influent, and recovery well samples.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding this report or the operation of the treatment system.

Sincerely,  
AECOM Technical Services Northeast, Inc.



Stephen R. Choiniere  
Project Manager

**Table 1**  
**Summary of Influent and Effluent Data**  
**Sampling Date: July 18, 2012**  
**NOW Corporation Site**  
**Town of Clinton, New York**

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations  (units)	
			TW-1	TW-2A	TW-3		
Quantity treated, per day		21,586				Monitor	gallons
pH	6.8	7.1				6.5 to 8.5	standard units
Oil and Grease	<1	<1	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	<b>260</b>	<b>250</b>	NA	NA	NA	1000	mg/L
TSS	<10	<10	NA	NA	NA	50	mg/L
Aluminum, Total	<200	<200	NA	NA	NA	Monitor	µg/L
Arsenic, Total	<20	<20	NA	NA	NA	100	µg/L
Barium, Total	<b>77 J</b>	<b>80 J</b>	NA	NA	NA	Monitor	µg/L
Chromium	<20	<20	NA	NA	NA	400	µg/L
Copper	<25	<25	NA	NA	NA	24	µg/L
Iron	<200	<200	NA	NA	NA	600	µg/L
Mercury	<0.2	<0.2	NA	NA	NA	0.8	µg/L
Manganese	<b>70</b>	<b>54</b>	NA	NA	NA	Monitor	µg/L
Nickel	<b>1.5 J</b>	<b>1.4 J</b>	NA	NA	NA	200	µg/L
Zinc	<50	<50	NA	NA	NA	150	µg/L
1,1,1-Trichloroethane	<b>490</b>	<b>1.9</b>	<b>5.2</b>	<b>560</b>	<b>5.5</b>	10	µg/L
1,1,2-Trichloroethane	<10	<0.5	<2	<20	<0.5	1.2	µg/L
1,1-Dichloroethane	<b>230</b>	<b>2.8</b>	<b>54</b>	<b>270</b>	<b>18</b>	10	µg/L
1,1-Dichloroethene	<b>22</b>	<0.5	<b>12</b>	<b>29</b>	<b>1.8</b>	0.5	µg/L
1,2-Dichloroethane	<10	<0.5	<2	<20	<0.5	1.6	µg/L
Benzene	<10	<0.5	<2	<20	<0.5	1.4	µg/L
Chlorobenzene	<10	<0.5	<2	<20	<0.5	10	µg/L
Chloroethane	<10	<0.5	<2	<20	<b>0.44 J</b>	10	µg/L
<i>cis</i> -1,2-Dichloroethene	<b>16</b>	<b>0.29</b>	<b>4.6</b>	<b>17 J</b>	<b>0.33 J</b>	5	µg/L
Ethylbenzene	<10	<0.5	<2	<20	<0.5	10	µg/L
<i>o</i> -Xylene	<10	<0.5	<2	<20	<0.5	5	µg/L
<i>m,p</i> -Xylene	<10	<0.5	<2	<20	<0.5	10	µg/L
Tetrachloroethene	<10	<0.5	<2	<20	<0.5	1.4	µg/L
Toluene	<10	<0.5	<2	<20	<0.5	10	µg/L
<i>trans</i> -1,2-Dichloroethene	<10	<0.5	<2	<20	<0.5	5	µg/L
Trichloroethene	<b>450</b>	<b>3.2</b>	<b>57</b>	<b>500</b>	<b>12</b>	6	µg/L
Vinyl Chloride	<10	<0.5	<2	<20	<0.5	0.6	µg/L

*Notes:*

- 1) Detected concentrations are presented in **bold** typeface, and are expressed in the units shown in far right column.
- 2) Effluent concentration boxed in **bold** denotes exceedance of effluent limitations.
- 3) NA indicates not analyzed.
- 4) "J" indicates an estimated concentration below the reporting limit (RL).
- 5) "B" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.

**Table 2  
Summary of July 2012 O&M Data**

**NOW Corporation Site  
Town of Clinton, New York**

<b>Instrumentation/Readings:</b>	<b>7/18/12</b>	<b>Units</b>
<b><i>TW-1</i></b>		
Pumping Rate	3	GPM
Water Level Above Transducer	47.27	feet
Flow Meter Reading	6,270,500	gallons
Pump Pressure	70	psi
<b><i>TW-2A</i></b>		
Pumping Rate	~14	GPM
Water Level Above Transducer	24.61	feet
Flow Meter Reading	23,727,400	gallons
Pump Pressure	10	psi
<b><i>TW-3</i></b>		
Pumping Rate	4	GPM
Water Level Above Transducer	16.41	feet
Flow Meter Reading	9,577,600	gallons
Pump Pressure	65	psi
<b><i>Air Stripper</i></b>		
Stripper Blower Pressure	16.5	inches H <sub>2</sub> O
Air Temperature in Stripper	60	°F
<b><i>Effluent Flow</i></b>		
Effluent Flow this period (calculated)	777,100	gallons
Total Effluent Flow (calculated)	87,536,700	gallons

Report Date:  
07-Aug-12 16:50



- Final Report  
 Re-Issued Report  
 Revised Report

## Laboratory Report

AECOM Technical Services, Inc.  
40 British American Boulevard  
Latham, NY 12110

Work Order: L1583  
Project : NOW Corp. Site, 7/12  
Project #:

Attn: Stephen Choiniere

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1583-01	EFF 071812	Aqueous	18-Jul-12 12:45	19-Jul-12 08:40
L1583-02	INF 071812	Aqueous	18-Jul-12 12:51	19-Jul-12 08:40
L1583-03	TW-1 071812	Aqueous	18-Jul-12 13:00	19-Jul-12 08:40
L1583-04	TW-2A 071812	Aqueous	18-Jul-12 13:05	19-Jul-12 08:40
L1583-05	TW-3 071812	Aqueous	18-Jul-12 13:10	19-Jul-12 08:40
L1583-06	TB-071812	Aqueous	18-Jul-12 00:00	19-Jul-12 08:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at [www.spectrum-analytical.com](http://www.spectrum-analytical.com).

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Certificate # L2247 Testing

Authorized by:

Yihai Ding  
Laboratory Director

## REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 7/12

Laboratory Workorder / SDG #: L1583

SW846 8260C, VOC by GC-MS (25 mL Purge)

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

#### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

#### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code:  
SW846 8260C

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

### V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5  
Instrument Type: GCMS-VOA  
Description: HP6890 / HP6890  
Manufacturer: Hewlett-Packard  
Model: 6890 / 6890

## VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

### D. Spikes:

#### 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

#### 2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

### E. Internal Standards:

Internal standard peak areas were within the QC limits.

### F. Dilutions:

The following samples were analyzed at dilution:

INF 071812 (L1583-02A) : Dilution Factor: 20  
TW-1 071812 (L1583-03A) : Dilution Factor: 4  
TW-2A 071812 (L1583-04A) : Dilution Factor: 40

**G. Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_ 8/7/2012 \_\_\_\_\_

## REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 7/12

Laboratory Workorder / SDG #: L1583

SW846 6010C, SW846 7470A

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

#### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

#### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code:  
SW846 6010C, SW846 7470A

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A  
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

## V. INSTRUMENTATION

The following instrumentation was used to perform analysis:

Instrument Code: FIMS2  
Instrument Type: CVAA  
Description: FIMS  
Manufacturer: Perkin-Elmer  
Model: FIMS100

Instrument Code: OPTIMA3  
Instrument Type: ICP  
Description: Optima ICP-OES  
Manufacturer: Perkin-Elmer  
Model: 4300 DV

## VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Spikes:

#### 1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

#### 2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

### D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

### E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

**F. Serial Dilution (SD):**

A serial dilution was not performed on any sample in this SDG.

**G. Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  \_\_\_\_\_

Date: 08/07/12

## REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 7/12

Laboratory Workorder / SDG #: L1583

SM 2540C, SM 2540D, SW846 9012B

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

#### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

#### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code: SM 2540C, SM 2540D, SW846 9012B

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SM 2540C, SM 2540D, SW846 9012B

## V. INSTRUMENTATION

The following instrumentation was used to perform analysis:

Instrument Code: LACHAT1  
Instrument Type: WC  
Description: Flow Injection Analyzer  
Manufacturer: Zellweger Analytics  
Model: Quik-Chem 8000

## VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Spikes:

#### 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

#### 2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

### D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

### E. Dilutions:

No sample required dilution in this SDG.

### F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  \_\_\_\_\_

Date: 08/07/12

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

07/31/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** EFF 071812

**Lab ID:** L1583-01

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Chloroethane	ND		0.50	ug/L	1	07/20/2012 16:26	67299
1,1-Dichloroethene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
trans-1,2-Dichloroethene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Methyl tert-butyl ether	ND		0.50	ug/L	1	07/20/2012 16:26	67299
1,1-Dichloroethane	2.8		0.50	ug/L	1	07/20/2012 16:26	67299
cis-1,2-Dichloroethene	0.29	J	0.50	ug/L	1	07/20/2012 16:26	67299
1,1,1-Trichloroethane	1.9		0.50	ug/L	1	07/20/2012 16:26	67299
1,2-Dichloroethane	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Benzene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Trichloroethene	3.2		0.50	ug/L	1	07/20/2012 16:26	67299
Toluene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
1,1,2-Trichloroethane	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Tetrachloroethene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Chlorobenzene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Ethylbenzene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
m,p-Xylene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
o-Xylene	ND		0.50	ug/L	1	07/20/2012 16:26	67299
Surrogate: Dibromofluoromethane	96.8		88-124	%REC	1	07/20/2012 16:26	67299
Surrogate: 1,2-Dichloroethane-d4	92.5		79-115	%REC	1	07/20/2012 16:26	67299
Surrogate: Toluene-d8	105		80-114	%REC	1	07/20/2012 16:26	67299
Surrogate: Bromofluorobenzene	102		60-123	%REC	1	07/20/2012 16:26	67299

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

07/31/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** INF 071812

**Lab ID:** L1583-02

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 12:51

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		10	ug/L		20 07/20/2012 19:05	67299
Chloroethane	ND		10	ug/L		20 07/20/2012 19:05	67299
1,1-Dichloroethene	22		10	ug/L		20 07/20/2012 19:05	67299
trans-1,2-Dichloroethene	ND		10	ug/L		20 07/20/2012 19:05	67299
Methyl tert-butyl ether	ND		10	ug/L		20 07/20/2012 19:05	67299
1,1-Dichloroethane	230		10	ug/L		20 07/20/2012 19:05	67299
cis-1,2-Dichloroethene	16		10	ug/L		20 07/20/2012 19:05	67299
1,1,1-Trichloroethane	490		10	ug/L		20 07/20/2012 19:05	67299
1,2-Dichloroethane	ND		10	ug/L		20 07/20/2012 19:05	67299
Benzene	ND		10	ug/L		20 07/20/2012 19:05	67299
Trichloroethene	450		10	ug/L		20 07/20/2012 19:05	67299
Toluene	ND		10	ug/L		20 07/20/2012 19:05	67299
1,1,2-Trichloroethane	ND		10	ug/L		20 07/20/2012 19:05	67299
Tetrachloroethene	ND		10	ug/L		20 07/20/2012 19:05	67299
Chlorobenzene	ND		10	ug/L		20 07/20/2012 19:05	67299
Ethylbenzene	ND		10	ug/L		20 07/20/2012 19:05	67299
m,p-Xylene	ND		10	ug/L		20 07/20/2012 19:05	67299
o-Xylene	ND		10	ug/L		20 07/20/2012 19:05	67299
Surrogate: Dibromofluoromethane	96.0		88-124	%REC		20 07/20/2012 19:05	67299
Surrogate: 1,2-Dichloroethane-d4	94.5		79-115	%REC		20 07/20/2012 19:05	67299
Surrogate: Toluene-d8	102		80-114	%REC		20 07/20/2012 19:05	67299
Surrogate: Bromofluorobenzene	99.4		60-123	%REC		20 07/20/2012 19:05	67299

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

07/31/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** TW-1 071812

**Lab ID:** L1583-03

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Chloroethane	ND		2.0	ug/L	4	07/20/2012 19:32	67299
1,1-Dichloroethene	12		2.0	ug/L	4	07/20/2012 19:32	67299
trans-1,2-Dichloroethene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Methyl tert-butyl ether	ND		2.0	ug/L	4	07/20/2012 19:32	67299
1,1-Dichloroethane	54		2.0	ug/L	4	07/20/2012 19:32	67299
cis-1,2-Dichloroethene	4.6		2.0	ug/L	4	07/20/2012 19:32	67299
1,1,1-Trichloroethane	5.2		2.0	ug/L	4	07/20/2012 19:32	67299
1,2-Dichloroethane	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Benzene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Trichloroethene	57		2.0	ug/L	4	07/20/2012 19:32	67299
Toluene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
1,1,2-Trichloroethane	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Tetrachloroethene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Chlorobenzene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Ethylbenzene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
m,p-Xylene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
o-Xylene	ND		2.0	ug/L	4	07/20/2012 19:32	67299
Surrogate: Dibromofluoromethane	98.4		88-124	%REC	4	07/20/2012 19:32	67299
Surrogate: 1,2-Dichloroethane-d4	90.2		79-115	%REC	4	07/20/2012 19:32	67299
Surrogate: Toluene-d8	101		80-114	%REC	4	07/20/2012 19:32	67299
Surrogate: Bromofluorobenzene	102		60-123	%REC	4	07/20/2012 19:32	67299

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

07/31/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** TW-2A 071812

**Lab ID:** L1583-04

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		20	ug/L	40	07/20/2012 19:58	67299
Chloroethane	ND		20	ug/L	40	07/20/2012 19:58	67299
1,1-Dichloroethene	29		20	ug/L	40	07/20/2012 19:58	67299
trans-1,2-Dichloroethene	ND		20	ug/L	40	07/20/2012 19:58	67299
Methyl tert-butyl ether	ND		20	ug/L	40	07/20/2012 19:58	67299
1,1-Dichloroethane	270		20	ug/L	40	07/20/2012 19:58	67299
cis-1,2-Dichloroethene	17	J	20	ug/L	40	07/20/2012 19:58	67299
1,1,1-Trichloroethane	560		20	ug/L	40	07/20/2012 19:58	67299
1,2-Dichloroethane	ND		20	ug/L	40	07/20/2012 19:58	67299
Benzene	ND		20	ug/L	40	07/20/2012 19:58	67299
Trichloroethene	500		20	ug/L	40	07/20/2012 19:58	67299
Toluene	ND		20	ug/L	40	07/20/2012 19:58	67299
1,1,2-Trichloroethane	ND		20	ug/L	40	07/20/2012 19:58	67299
Tetrachloroethene	ND		20	ug/L	40	07/20/2012 19:58	67299
Chlorobenzene	ND		20	ug/L	40	07/20/2012 19:58	67299
Ethylbenzene	ND		20	ug/L	40	07/20/2012 19:58	67299
m,p-Xylene	ND		20	ug/L	40	07/20/2012 19:58	67299
o-Xylene	ND		20	ug/L	40	07/20/2012 19:58	67299
Surrogate: Dibromofluoromethane	97.9		88-124	%REC	40	07/20/2012 19:58	67299
Surrogate: 1,2-Dichloroethane-d4	97.0		79-115	%REC	40	07/20/2012 19:58	67299
Surrogate: Toluene-d8	104		80-114	%REC	40	07/20/2012 19:58	67299
Surrogate: Bromofluorobenzene	100		60-123	%REC	40	07/20/2012 19:58	67299

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

07/31/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** TW-3 071812

**Lab ID:** L1583-05

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Chloroethane	0.44	J	0.50	ug/L	1	07/20/2012 20:25	67299
1,1-Dichloroethene	1.8		0.50	ug/L	1	07/20/2012 20:25	67299
trans-1,2-Dichloroethene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Methyl tert-butyl ether	ND		0.50	ug/L	1	07/20/2012 20:25	67299
1,1-Dichloroethane	18		0.50	ug/L	1	07/20/2012 20:25	67299
cis-1,2-Dichloroethene	0.33	J	0.50	ug/L	1	07/20/2012 20:25	67299
1,1,1-Trichloroethane	5.5		0.50	ug/L	1	07/20/2012 20:25	67299
1,2-Dichloroethane	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Benzene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Trichloroethene	12		0.50	ug/L	1	07/20/2012 20:25	67299
Toluene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
1,1,2-Trichloroethane	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Tetrachloroethene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Chlorobenzene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Ethylbenzene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
m,p-Xylene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
o-Xylene	ND		0.50	ug/L	1	07/20/2012 20:25	67299
Surrogate: Dibromofluoromethane	99.3		88-124	%REC	1	07/20/2012 20:25	67299
Surrogate: 1,2-Dichloroethane-d4	97.4		79-115	%REC	1	07/20/2012 20:25	67299
Surrogate: Toluene-d8	100		80-114	%REC	1	07/20/2012 20:25	67299
Surrogate: Bromofluorobenzene	100		60-123	%REC	1	07/20/2012 20:25	67299

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

07/31/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** TB-071812

**Lab ID:** L1583-06

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Chloroethane	ND		0.50	ug/L	1	07/20/2012 18:39	67299
1,1-Dichloroethene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
trans-1,2-Dichloroethene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Methyl tert-butyl ether	ND		0.50	ug/L	1	07/20/2012 18:39	67299
1,1-Dichloroethane	ND		0.50	ug/L	1	07/20/2012 18:39	67299
cis-1,2-Dichloroethene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
1,1,1-Trichloroethane	ND		0.50	ug/L	1	07/20/2012 18:39	67299
1,2-Dichloroethane	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Benzene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Trichloroethene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Toluene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
1,1,2-Trichloroethane	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Tetrachloroethene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Chlorobenzene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Ethylbenzene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
m,p-Xylene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
o-Xylene	ND		0.50	ug/L	1	07/20/2012 18:39	67299
Surrogate: Dibromofluoromethane	99.7		88-124	%REC	1	07/20/2012 18:39	67299
Surrogate: 1,2-Dichloroethane-d4	89.8		79-115	%REC	1	07/20/2012 18:39	67299
Surrogate: Toluene-d8	99.6		80-114	%REC	1	07/20/2012 18:39	67299
Surrogate: Bromofluorobenzene	99.5		60-123	%REC	1	07/20/2012 18:39	67299

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

## ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: L1583

SW8260\_25\_W

Project: NOW Corp. Site, 7/12

SW846 8260C -- VOC by GC-MS (25 mL Purge)

Sample ID:	MB-67299	SampType:	MBLK	TestCode:	SW8260_25_W	Prep Date:	07/20/12 7:22	Run ID:	V5_120720A		
Client ID:	MB-67299	Batch ID:	67299	Units:	ug/L	Analysis Date:	07/20/12 13:47	SeqNo:	1773110		
Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.15	0.50								
Chloroethane	ND	0.24	0.50								
1,1-Dichloroethene	ND	0.19	0.50								
trans-1,2-Dichloroethene	ND	0.14	0.50								
Methyl tert-butyl ether	ND	0.13	0.50								
1,1-Dichloroethane	ND	0.18	0.50								
cis-1,2-Dichloroethene	ND	0.19	0.50								
1,1,1-Trichloroethane	ND	0.11	0.50								
1,2-Dichloroethane	ND	0.16	0.50								
Benzene	ND	0.12	0.50								
Trichloroethene	ND	0.13	0.50								
Toluene	ND	0.14	0.50								
1,1,2-Trichloroethane	ND	0.20	0.50								
Tetrachloroethene	ND	0.17	0.50								
Chlorobenzene	ND	0.13	0.50								
Ethylbenzene	ND	0.13	0.50								
m,p-Xylene	ND	0.22	0.50								
o-Xylene	ND	0.17	0.50								
Surrogate:	9.670		0.50	10.00	0	96.7	88	1.24	0		
Dibromofluoromethane											
Surrogate: 1,2-Dichloroethane-d4	8.882		0.50	10.00	0	88.8	79	1.15	0		
Surrogate: Toluene-d8	10.21		0.50	10.00	0	102	80	1.14	0		
Surrogate:	9.912		0.50	10.00	0	99.1	60	1.23	0		
Bromofluorobenzene											

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blank

mm11.12.11.A

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

RL - Reporting Limit

# ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: L1583

SW8260\_25\_W

Project: NOW Corp. Site, 7/12

SW846 8260C -- VOC by GC-MS (25 mL Purge)

Prep Date: 07/20/12 7:22 Run ID: V5\_120720A

Analysis Date 07/20/12 12:27 SeqNo: 1773108

TestCode: SW8260\_25\_W

Units: ug/L

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.466	0.15	0.50	10.00	0	94.7	77	120	0			
Chloroethane	9.667	0.24	0.50	10.00	0	96.7	75	135	0			
1,1-Dichloroethene	9.714	0.19	0.50	10.00	0	97.1	81	125	0			
trans-1,2-Dichloroethene	10.29	0.14	0.50	10.00	0	103	60	137	0			
Methyl tert-butyl ether	8.611	0.13	0.50	10.00	0	86.1	61	134	0			
1,1-Dichloroethane	10.26	0.18	0.50	10.00	0	103	82	120	0			
cis-1,2-Dichloroethene	9.894	0.19	0.50	10.00	0	98.9	84	116	0			
1,1,1-Trichloroethane	10.45	0.11	0.50	10.00	0	105	80	124	0			
1,2-Dichloroethane	9.184	0.16	0.50	10.00	0	91.8	86	117	0			
Benzene	9.991	0.12	0.50	10.00	0	99.9	81	121	0			
Trichloroethene	10.07	0.13	0.50	10.00	0	101	74	123	0			
Toluene	10.20	0.14	0.50	10.00	0	102	88	117	0			
1,1,2-Trichloroethane	8.816	0.20	0.50	10.00	0	88.2	83	121	0			
Tetrachloroethene	10.44	0.17	0.50	10.00	0	104	74	115	0			
Chlorobenzene	10.37	0.13	0.50	10.00	0	104	83	112	0			
Ethylbenzene	10.82	0.13	0.50	10.00	0	108	87	110	0			
m,p-Xylene	21.48	0.22	0.50	20.00	0	107	87	114	0			
o-Xylene	10.17	0.17	0.50	10.00	0	102	84	114	0			
Surrogate:	9.546		0.50	10.00	0	95.5	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.054		0.50	10.00	0	90.5	79	115	0			
Surrogate: Toluene-d8	10.28		0.50	10.00	0	103	80	114	0			
Surrogate: Bromofluorobenzene	9.804		0.50	10.00	0	98.0	60	123	0			

Qualifiers: ND - Not Detected at the MDL  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Recovery outside accepted recovery limits  
 MDL - Method Detection Limit  
 RL - Reporting Limit

B - Analyte detected in the associated Method Blank

# ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: L1583

SW8260\_25\_W

Project: NOW Corp. Site, 7/12

SW846 8260C -- VOC by GC-MS (25 mL Purge)

Prep Date: 07/20/12 7:22 Run ID: V5\_120720A

Analysis Date 07/20/12 12:53 SeqNo: 1773109

TestCode: SW8260\_25\_W

Units: ug/L

SampType: LCSD

Batch ID: 67299

Sample ID: LCSD-67299

Client ID: LCSD-67299

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.702	0.15	0.50	10.00	0	97.0	77	120	9.466	2.46	40	
Chloroethane	10.16	0.24	0.50	10.00	0	102	75	135	9.667	4.92	40	
1,1-Dichloroethene	9.889	0.19	0.50	10.00	0	98.9	81	125	9.714	1.78	40	
trans-1,2-Dichloroethene	10.34	0.14	0.50	10.00	0	103	60	137	10.29	0.518	40	
Methyl tert-butyl ether	8.824	0.13	0.50	10.00	0	88.2	61	134	8.611	2.44	40	
1,1-Dichloroethane	10.52	0.18	0.50	10.00	0	105	82	120	10.26	2.45	40	
cis-1,2-Dichloroethene	10.15	0.19	0.50	10.00	0	102	84	116	9.894	2.58	40	
1,1,1-Trichloroethane	10.46	0.11	0.50	10.00	0	105	80	124	10.45	0.0555	40	
1,2-Dichloroethane	9.342	0.16	0.50	10.00	0	93.4	86	117	9.184	1.7	40	
Benzene	10.05	0.12	0.50	10.00	0	100	81	121	9.991	0.582	40	
Trichloroethene	10.27	0.13	0.50	10.00	0	103	74	123	10.07	2.0	40	
Toluene	10.35	0.14	0.50	10.00	0	104	88	117	10.20	1.5	40	
1,1,2-Trichloroethane	8.715	0.20	0.50	10.00	0	87.1	83	121	8.816	1.15	40	
Tetrachloroethene	10.23	0.17	0.50	10.00	0	102	74	115	10.44	2.01	40	
Chlorobenzene	10.39	0.13	0.50	10.00	0	104	83	112	10.37	0.17	40	
Ethylbenzene	10.73	0.13	0.50	10.00	0	107	87	110	10.82	0.89	40	
m,p-Xylene	20.63	0.22	0.50	20.00	0	103	87	114	21.48	4.06	40	
o-Xylene	10.04	0.17	0.50	10.00	0	100	84	114	10.17	1.21	40	
Surrogate: 9.686		0.50	0.50	10.00	0	96.9	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	8.720		0.50	10.00	0	87.2	79	115	0			
Surrogate: Toluene-d8	10.17		0.50	10.00	0	102	80	114	0			
Surrogate: Bromofluorobenzene	9.995		0.50	10.00	0	99.9	60	123	0			

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

08/02/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** EFF 071812

**Lab ID:** L1583-01

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>							<b>SW6010_W</b>
Aluminum	ND		200	ug/L		1 07/23/2012 9:27	67335
Arsenic	ND		20	ug/L		1 07/23/2012 9:27	67335
Barium	80	J	200	ug/L		1 07/23/2012 9:27	67335
Chromium	ND		20	ug/L		1 07/23/2012 9:27	67335
Copper	ND		25	ug/L		1 07/23/2012 9:27	67335
Iron	ND		200	ug/L		1 07/23/2012 9:27	67335
Manganese	54		50	ug/L		1 07/23/2012 9:27	67335
Nickel	1.4	J	50	ug/L		1 07/23/2012 9:27	67335
Zinc	ND		50	ug/L		1 07/23/2012 9:27	67335
<b>SW846 7470A -- Mercury by FIA</b>							<b>SW7470</b>
Mercury	ND		0.20	µg/L		1 07/25/2012 12:40	67384

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

08/02/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** INF 071812

**Lab ID:** L1583-02

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 12:51

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>							<b>SW6010_W</b>
Aluminum	ND		200	ug/L		1 07/23/2012 9:31	67335
Arsenic	ND		20	ug/L		1 07/23/2012 9:31	67335
Barium	77	J	200	ug/L		1 07/23/2012 9:31	67335
Chromium	ND		20	ug/L		1 07/23/2012 9:31	67335
Copper	ND		25	ug/L		1 07/23/2012 9:31	67335
Iron	ND		200	ug/L		1 07/23/2012 9:31	67335
Manganese	70		50	ug/L		1 07/23/2012 9:31	67335
Nickel	1.5	J	50	ug/L		1 07/23/2012 9:31	67335
Zinc	ND		50	ug/L		1 07/23/2012 9:31	67335
<b>SW846 7470A -- Mercury by FIA</b>							<b>SW7470</b>
Mercury	ND		0.20	µg/L		1 07/25/2012 12:42	67384

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AECOM Technical Services, Inc.  
**Work Order:** L1583  
**Project:** NOW Corp. Site, 7/12

**SW6010\_W**  
**SW846 6010C -- Metals by ICP**

Sample ID: MB-67335	SampType: MBLK	TestCode: SW6010_W	Prep Date: 07/20/12 10:45	Run ID: OPTIMA3_120723A								
Client ID: MB-67335	Batch ID: 67335	Units: ug/L	Analysis Date: 07/23/12 8:24	SeqNo: 1773224								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	66	200									J
Arsenic	7.142	4.3	20									
Barium	ND	1.1	200									
Chromium	ND	0.64	20									
Copper	ND	3.6	30									
Iron	ND	31	200									
Manganese	ND	10	50									
Nickel	ND	0.85	50									
Zinc	ND	4.9	50									

Sample ID: LCS-67335	SampType: LCS	TestCode: SW6010_W	Prep Date: 07/20/12 10:45	Run ID: OPTIMA3_120723A								
Client ID: LCS-67335	Batch ID: 67335	Units: ug/L	Analysis Date: 07/23/12 8:28	SeqNo: 1773225								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8810	66	200	9100	0	96.8	80	120	0			
Arsenic	446.7	4.3	20	455.0	0	98.2	80	120	0			B
Barium	9179	1.1	200	9100	0	101	80	120	0			
Chromium	887.8	0.64	20	910.0	0	97.6	80	120	0			
Copper	1117	3.6	30	1130	0	98.8	80	120	0			
Iron	4476	31	200	4550	0	98.4	80	120	0			
Manganese	2257	10	50	2270	0	99.4	80	120	0			
Nickel	2236	0.85	50	2270	0	98.5	80	120	0			
Zinc	2224	4.9	50	2270	0	98.0	80	120	0			

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 mm11.12.11.A      J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AECOM Technical Services, Inc.  
**Work Order:** L1583  
**Project:** NOW Corp. Site, 7/12

**SW7470**  
**SW846 7470A -- Mercury by FIA**

Sample ID: <b>MB-67384</b>	SampType: <b>MBLK</b>	TestCode: <b>SW7470</b>	Prep Date: <b>07/24/12 14:00</b>	Run ID: <b>FIMS2_120725B</b>	
Client ID: <b>MB-67384</b>	Batch ID: <b>67384</b>	Units: <b>µg/L</b>	Analysis Date: <b>07/25/12 12:14</b>	SeqNo: <b>1774865</b>	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
Mercury	ND	0.028			RPD Ref Val %RPD RPDLimit Qual

Sample ID: <b>LCS-67384</b>	SampType: <b>LCS</b>	TestCode: <b>SW7470</b>	Prep Date: <b>07/24/12 14:00</b>	Run ID: <b>FIMS2_120725B</b>	
Client ID: <b>LCS-67384</b>	Batch ID: <b>67384</b>	Units: <b>µg/L</b>	Analysis Date: <b>07/25/12 12:15</b>	SeqNo: <b>1774866</b>	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
Mercury	4.835	0.028	0	1.06	80 1.20 0

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

08/02/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** EFF 071812

**Lab ID:** L1583-01

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SM 2540C -- TOTAL DISSOLVED SOLIDS</b>							<b>SM2540_TDS</b>
Total Dissolved Solids	250		10	mg/L	1	07/20/2012 4:22	67329
<b>SM 2540D -- TOTAL SUSPENDED SOLIDS</b>							<b>SM2540_TSS</b>
Total Suspended Solids	ND		10	mg/L	1	07/20/2012 5:50	67330
<b>SW846 9012B -- Total Cyanide</b>							<b>SW9012_W</b>
Cyanide	ND		10	ug/L	1	07/31/2012 14:37	67463

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division**

08/02/2012

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** INF 071812

**Lab ID:** L1583-02

**Project:** NOW Corp. Site, 7/12

**Collection Date:** 07/18/12 12:51

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SM 2540C -- TOTAL DISSOLVED SOLIDS</b>							<b>SM2540_TDS</b>
Total Dissolved Solids	260		10	mg/L	1	07/20/2012 6:26	67329
<b>SM 2540D -- TOTAL SUSPENDED SOLIDS</b>							<b>SM2540_TSS</b>
Total Suspended Solids	ND		10	mg/L	1	07/20/2012 7:10	67330
<b>SW846 9012B -- Total Cyanide</b>							<b>SW9012_W</b>
Cyanide	ND		10	ug/L	1	07/31/2012 14:39	67463

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AECOM Technical Services, Inc.

**Work Order:** L1583

**SM2540\_TDS**

**Project:** NOW Corp. Site, 7/12

**SM 2540C -- TOTAL DISSOLVED SOLIDS**

Sample ID: <b>MB-67329</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540_TDS</b>	Prep Date: <b>07/19/12 16:30</b>	Run ID: <b>MANUAL_120719C</b>
Client ID: <b>MB-67329</b>	Batch ID: <b>67329</b>	Units: <b>mg/L</b>	Analysis Date: <b>07/19/12 16:30</b>	SeqNo: <b>1773168</b>
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	1.0	SPK value	LowLimit
			RPD Ref Val	HighLimit
				%RPD
				RPDLimit
				Qual

Sample ID: <b>LCS-67329</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540_TDS</b>	Prep Date: <b>07/19/12 16:30</b>	Run ID: <b>MANUAL_120719C</b>
Client ID: <b>LCS-67329</b>	Batch ID: <b>67329</b>	Units: <b>mg/L</b>	Analysis Date: <b>07/19/12 18:03</b>	SeqNo: <b>1773169</b>
Analyte	Result	MDL	SPK Ref Val	%REC
	388.0	1.0	SPK value	LowLimit
			RPD Ref Val	HighLimit
				%RPD
				RPDLimit
				Qual

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AECOM Technical Services, Inc.

**Work Order:** L1583

**SM2540\_TSS**

**Project:** NOW Corp. Site, 7/12

**SM 2540D -- TOTAL SUSPENDED SOLIDS**

Sample ID: <b>MB-67330</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540_TSS</b>	Prep Date: <b>07/19/12 16:30</b>	Run ID: <b>MANUAL_120719B</b>
Client ID: <b>MB-67330</b>	Batch ID: <b>67330</b>	Units: <b>mg/L</b>	Analysis Date: <b>07/19/12 16:30</b>	SeqNo: <b>1773156</b>
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	10	0	1.02
Total Suspended Solids		10	0	1.20

Sample ID: <b>LCS-67330</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540_TSS</b>	Prep Date: <b>07/19/12 16:30</b>	Run ID: <b>MANUAL_120719B</b>
Client ID: <b>LCS-67330</b>	Batch ID: <b>67330</b>	Units: <b>mg/L</b>	Analysis Date: <b>07/19/12 17:50</b>	SeqNo: <b>1773157</b>
Analyte	Result	MDL	SPK Ref Val	%REC
	87.00	10	0	1.02
Total Suspended Solids		10	0	1.20

Sample ID: <b>MB-67330</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540_TSS</b>	Prep Date: <b>07/19/12 16:30</b>	Run ID: <b>MANUAL_120719B</b>
Client ID: <b>MB-67330</b>	Batch ID: <b>67330</b>	Units: <b>mg/L</b>	Analysis Date: <b>07/19/12 16:30</b>	SeqNo: <b>1773156</b>
Analyte	Result	MDL	SPK Ref Val	%REC
	85.40	10	0	1.02
Total Suspended Solids		10	0	1.20

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AECOM Technical Services, Inc.

**Work Order:** L1583

**Project:** NOW Corp. Site, 7/12

**SW9012\_W**

**SW846 9012B -- Total Cyanide**

Sample ID: <b>MB-67463</b>	SampType: <b>MBLK</b>	TestCode: <b>SW9012_W</b>	Prep Date: <b>07/30/12 9:30</b>	Run ID: <b>LACHAT1_120731A</b>
Client ID: <b>MB-67463</b>	Batch ID: <b>67463</b>	Units: <b>ug/L</b>	Analysis Date: <b>07/31/12 14:31</b>	SeqNo: <b>1776543</b>
Analyte	Result	MDL	SPK Ref Val	%REC
		RL	SPK value	LowLimit
		20		HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: <b>LCS-67463</b>	SampType: <b>LCS</b>	TestCode: <b>SW9012_W</b>	Prep Date: <b>07/30/12 9:30</b>	Run ID: <b>LACHAT1_120731A</b>
Client ID: <b>LCS-67463</b>	Batch ID: <b>67463</b>	Units: <b>ug/L</b>	Analysis Date: <b>07/31/12 14:34</b>	SeqNo: <b>1776544</b>
Analyte	Result	MDL	SPK Ref Val	%REC
		RL	SPK value	LowLimit
		20		HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Cyanide      1.02.9      7.5      20      100.0      0      103      80      120      0

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

Report Date:  
01-Aug-12 11:51



- Final Report
- Re-Issued Report
- Revised Report

**SPECTRUM ANALYTICAL, INC.**  
*Featuring*  
**HANIBAL TECHNOLOGY**  
**Laboratory Report**

Spectrum Analytical, Inc.  
175 Metro Center Boulevard  
Warwick, RI 02886-1755  
Attn: Edward Lawler

Project: See Chain of Custody  
Project #: L1583

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB53312-01	EFF 071812	Aqueous	18-Jul-12 12:45	20-Jul-12 17:06
SB53312-02	INF 071812	Aqueous	18-Jul-12 12:51	20-Jul-12 17:06

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.  
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110  
Connecticut # PH-0777  
Florida # E87600/E87936  
Maine # MA138  
New Hampshire # 2538  
New Jersey # MA011/MA012  
New York # 11393/11840  
Pennsylvania # 68-04426/68-02924  
Rhode Island # 98  
USDA # S-51435



Authorized by:

Nicole Leja  
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 6 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

*Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at [www.spectrum-analytical.com](http://www.spectrum-analytical.com) for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).*

**CASE NARRATIVE:**

The samples were received 0.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

**There is no relevant protocol-specific QC and/or performance standards non-conformances to report.**

Sample Identification

EFF 071812  
SB53312-01

Client Project #  
L1583

Matrix  
Aqueous

Collection Date/Time  
18-Jul-12 12:45

Received  
20-Jul-12

---

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
<b>Extractable Petroleum Hydrocarbons</b>													
	Oil & Grease	< 1.00	OG	mg/l	1.00	0.619	1	EPA 1664A	26-Jul-12	27-Jul-12	JK	1217820	X

---

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

INF 071812  
SB53312-02

Client Project #  
L1583

Matrix  
Aqueous

Collection Date/Time  
18-Jul-12 12:51

Received  
20-Jul-12

---

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
<b>Extractable Petroleum Hydrocarbons</b>													
	Oil & Grease	< 1.00	OG	mg/l	1.00	0.619	1	EPA 1664A	26-Jul-12	27-Jul-12	JK	1217820	X

---

*This laboratory report is not valid without an authorized signature on the cover page.*

**Extractable Petroleum Hydrocarbons - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 1217820 - SW846 3510C</b>										
<b><u>Blank (1217820-BLK1)</u></b>					<u>Prepared: 26-Jul-12 Analyzed: 27-Jul-12</u>					
Oil & Grease	< 1.00		mg/l	1.00						
<b><u>LCS (1217820-BS1)</u></b>					<u>Prepared: 26-Jul-12 Analyzed: 27-Jul-12</u>					
Oil & Grease	<b>34.4</b>		mg/l		40.2		86	83-101		
<b><u>Matrix Spike (1217820-MS1)</u></b>					<u>Prepared: 26-Jul-12 Analyzed: 27-Jul-12</u>					
Oil & Grease	<b>34.0</b>		mg/l		40.2	BRL	85	64-132		

*This laboratory report is not valid without an authorized signature on the cover page.*

## Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
OG	The required Matrix Spike and Matrix Spike Duplicate (MS/MSD) for Oil & Grease method 1664A can only be analyzed when the client has submitted sufficient sample volume. An extra liter per MS/MSD is required to fulfill the method QC criteria. Please refer to Chain of Custody and QC Summary (MS/MSD) of the Laboratory Report to verify ample sample volume was submitted to fulfill the requirement.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

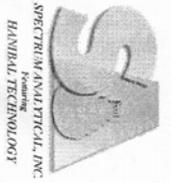
Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:  
Nicole Leja



# CHAIN-OF-CUSTODY RECORD

000012 JB

WorkOrder : L1583  
Report Type : LEVEL 2  
Due Date : 8/7/2012

Requested Test

**Subcontractor:**  
Spectrum Analytical, Inc.

FAX Due Date :

Agawam, Massachusetts 01001

Report To : Edward A Lawler  
Purchase Order : L1583

Phone: (413) 789-9018

EDD Type : - *Per EDD*

EquipFacilityCode: N/A

Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mikem Sample ID	E1664
EFF 071812	7/18/2012 12:45:00 PM	Aqueous		L1583-01B	X
INF 071812	7/18/2012 12:51:00 PM	Aqueous		L1583-02B	X



1) E1664, OIL GREASE, HEM

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.

**Comments:** *Per EDD*

Relinquished by:	<i>Edward A Lawler</i>	Date/Time	07/20/12 8:01
Relinquished by:	<i>Bill Murray</i>	Received by:	<i>Bill Murray</i>
		Received by:	<i>Bill Murray</i>
		Date/Time	7/20/12 12:46
		Date/Time	7/20/12 1:06

175 Metro Center Blvd \* Warwick \* RI \* 02886-1755 \* 401-732-3400 \* 401-732-3499  
www.spectrum-analytical.com

# Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1583

Client ID: EARTH\_NY

Project: NOW Corp. Site

WO Name: NOW Corp. Site, 7/12

Location: NOW\_CORP,

Comments: N/A

Case:

SDG:

PO: 94017.02

HC Due: 08/07/12

Fax Due:

Fax Report:

Report Level: LEVEL 2

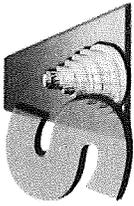
Special Program:

EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1583-01A	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
L1583-01B	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	E1664	/ SPECTRUM					SUB
L1583-01C	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	SW6010_W	/ See SEL list				Y	M2
L1583-01C	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	SW7470	/ See SEL list					M2
L1583-01D	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	SM2540_TDS	/					F3
L1583-01D	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	SM2540_TSS	/					F3
L1583-01E	EFF 071812	07/18/2012 12:45	07/19/2012	Aqueous	SW9012_W	/				Y	F3
L1583-02A	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
L1583-02B	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	E1664	/ SPECTRUM					SUB
L1583-02C	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	SW6010_W	/ See SEL list				Y	M2
L1583-02C	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	SW7470	/ See SEL list					M2
L1583-02D	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	SM2540_TDS	/					F3
L1583-02D	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	SM2540_TSS	/					F3
L1583-02E	INF 071812	07/18/2012 12:51	07/19/2012	Aqueous	SW9012_W	/				Y	F3
L1583-03A	TW-1 071812	07/18/2012 13:00	07/19/2012	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
L1583-04A	TW-2A 071812	07/18/2012 13:05	07/19/2012	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
L1583-05A	TW-3 071812	07/18/2012 13:10	07/19/2012	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
L1583-06A	TB-071812	07/18/2012 00:00	07/19/2012	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



SPECTRUM ANALYTICAL, INC.  
Featuring  
HANIBAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

FedEx #

8996 2349 6127 Page 1 of 1

### Special Handling:

- TAT- Indicate Date Needed: \_\_\_\_\_
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: AECOM  
40 British American Blvd.  
Latham NY, 12110

Invoice To: Same

P.O. No.: \_\_\_\_\_ RQN: \_\_\_\_\_

Project No.: 60135676 02

Site Name: New Corp

Location: Stattsburgh State: NY

Sampler(s): SRG

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8= NaHSO<sub>4</sub> 9= None 10= \_\_\_\_\_ 11= \_\_\_\_\_

DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air  
 X1= \_\_\_\_\_ X2= \_\_\_\_\_ X3= \_\_\_\_\_

List preservative code below:

2 4 9 2 5

Notes:

Containers:

# of VOA Vials  
 # of Amber Glass  
 # of Clear Glass  
 # of Plastic

Analyses:

8260  
 Metals  
 TSS/TDS  
 O+G  
 Cyanide

QA/QC Reporting Level

- Level I
- Level II
- Level III
- Level IV
- Other \_\_\_\_\_

Matrix

Lab Id: Sample Id: Date: Time:

Lab Id:	Sample Id:	Date:	Time:	Type
01	EFF071812	7-18-12	12:45	G
02	INF071812		12:51	
03	TW-1 071812		13:00	
04	TW-2A071812		13:05	
05	TW-3 071812		13:10	
06	TB-071812			

G=Grab C=Composite

Type

Matrix

Analyses:

QA/QC Reporting Level

State specific reporting standards:

E-mail to \_\_\_\_\_

EDD Format \_\_\_\_\_

Condition upon receipt:  Iced  Ambient  °C 4

Relinquished by:

Steve J...

Received by:

FedEx  
Vereen Byrd

Date:

7-18-12

Time:

16:09

7/19/12

8:40

4583

4583

Received By: <i>AKS</i>	Page 01 of 00
Reviewed By: <i>AKS</i>	Log-in Date 07/19/2012
Work Order: L1583	Client Name: AECOM Technical Services, Inc.

Project Name/Event: NOW Corp. Site

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

	Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
		HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s) <span style="float:right">Present / Absent</span>	L1583-01	<2			>12		H	
<span style="float:right">Intact / Broken</span>	L1583-02	<2			>12		H	
2. Custody Seal Nos. N/A	L1583-03						H	
	L1583-04						H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists <span style="float:right">Present / Absent</span>	L1583-05						H	
	L1583-06						H	

4. Airbill AirBill / Sticker  
Present / Absent

5. Airbill No. FedEx 8996 2349 6127

6. Sample Tags Present / Absent  
 Sample Tag Numbers  
Listed /  
NOT Listed on Chain-of-Custody

7. Sample Condition Intact / Broken / Leaking

8. Cooler Temperature Indicator Bottle Present / Absent

9. Cooler Temperature 4 °C

10. Does information on TR/COCs and sample tags agree? Yes / No

11. Date Received at Laboratory 07/19/2012

12. Time Received 08:40

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

IR Temp Gun ID:MT-1  
 Coolant Condition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

**Spectrum Analytical, Inc. RI Division Sample Condition Notification**

Project#: L1583

Date of Receipt: 7/19/12

Client: Earth NY

Received By: JV

Client project #/name: Now Corp

**Unusual Occurance Description:**

One <sup>VIAL</sup> vial for sample TB-071812 was  
received broken. There is one vial remaining.  
VIAL

**Client Contacted:**

Contacted via: ~~Phone/Fax/E-mail~~  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Contacted By: \_\_\_\_\_  
Name of person contacted: \_\_\_\_\_

**Client Response:**

Responded via: ~~Phone/Fax/E-mail~~  
Date: \_\_\_\_\_  
Name of person responding: \_\_\_\_\_  
Responding to: \_\_\_\_\_

Analyze the bottle we have left (Should be  
sufficient).

**Action Taken:** \_\_\_\_\_

**Last Page of Data Report**