

**Operation, Maintenance and Monitoring Report
January 2013**

**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

March 2013

March 18, 2013

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

**Re: NOW Corporation - Site #3-14-008
O&M Summary Report: "January" 2013**

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 34-day period (**December 27, 2012 – January 30, 2013**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 877,400 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 25,806 gallons per day (gpd), compared to 18,983 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 91,339,800 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 January 30. **Effluent limitations were not exceeded this reporting 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 on the stripper blower was operating at 60 Hz.

AECOM made two site visits during the period to conduct the required system inspection, perform scheduled maintenance, and to collect water samples and water levels. The December 27 service visit was described in the previous report. Details for the current period follow:

January 30 – AECOM was onsite to complete monthly influent, effluent, and recovery well sampling. General housekeeping was performed in the treatment building. After sampling, the VFD speed was reduced from 60 to 55 Hz.

The system efficiency and runtime was evaluated over the month. The system operated without downtime for the period.

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: January 30, 2013
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		25,806				Monitor	gallons
pH	6.8	7.0				6.5 to 8.5	standard units
Oil and Grease	<5	<5	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	260	260	NA	NA	NA	1000	mg/L
TSS	<10	<10	NA	NA	NA	50	mg/L
Aluminum, Total	<200	<200	NA	NA	NA	Monitor	ug/L
Arsenic, Total	<20	<20	NA	NA	NA	100	ug/L
Barium, Total	74 J	74 J	NA	NA	NA	Monitor	ug/L
Chromium	<20	<20	NA	NA	NA	400	ug/L
Copper	<25	<25	NA	NA	NA	24	ug/L
Iron	<200	<200	NA	NA	NA	600	ug/L
Mercury	<0.2	<0.2	NA	NA	NA	0.8	ug/L
Manganese	110	73	NA	NA	NA	Monitor	ug/L
Nickel	1.1 J	0.99 J	NA	NA	NA	200	ug/L
Zinc	7.5 J	<50	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	210	<0.5	35	58	5.7	10	ug/L
1,1,2-Trichloroethane	<10	<0.5	<2	<20	<0.5	1.2	ug/L
1,1-Dichloroethane	120	<0.5	18	500	18	10	ug/L
1,1-Dichloroethene	<10	<0.5	<2	120	2.4	0.5	ug/L
1,2-Dichloroethane	<10	<0.5	<2	<20	<0.5	1.6	ug/L
Benzene	<10	<0.5	<2	<20	<0.5	1.4	ug/L
Chlorobenzene	<10	<0.5	<2	<20	<0.5	10	ug/L
Chloroethane	<10	<0.5	<2	<20	<0.5	10	ug/L
<i>cis</i> -1,2-Dichloroethene	15	<0.5	2.2	90	0.63	5	ug/L
Ethylbenzene	<10	<0.5	<2	<20	<0.5	10	ug/L
<i>o</i> -Xylene	<10	<0.5	<2	<20	<0.5	5	ug/L
<i>m,p</i> -Xylene	<10	<0.5	<2	<20	<0.5	10	ug/L
Tetrachloroethene	<10	<0.5	<2	<20	<0.5	1.4	ug/L
Toluene	<10	<0.5	<2	<20	<0.5	10	ug/L
<i>trans</i> -1,2-Dichloroethene	<10	<0.5	<2	<20	<0.5	5	ug/L
Trichloroethene	260	<0.5	43	790	13	6	ug/L
Vinyl Chloride	<10	<0.5	<2	<20	<0.5	0.6	ug/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 January 2013 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:	1/30/13	Units
<i>TW-1</i>		
Pumping Rate	2	GPM
Water Level Above Transducer	15.56	feet
Flow Meter Reading	6,447,900	gallons
Pump Pressure	75	psi
<i>TW-2A</i>		
Pumping Rate	~14	GPM
Water Level Above Transducer	50.50	feet
Flow Meter Reading	26,228,600	gallons
Pump Pressure	6	psi
<i>TW-3</i>		
Pumping Rate	4	GPM
Water Level Above Transducer	10.86	feet
Flow Meter Reading	10,259,700	gallons
Pump Pressure	59	psi
<i>Air Stripper</i>		
Stripper Blower Pressure	18	inches H ₂ O
Air Temperature in Stripper	50	°F
<i>Effluent Flow</i>		
Effluent Flow this period (calculated)	877,400	gallons
Total Effluent Flow (calculated)	91,339,800	gallons

Report Date:
19-Feb-13 13:47



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

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

Work Order: M0118
Project : NOW Corp. Site, 1/2013
Project #:

Attn: Stephen Choiniere

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
M0118-01	EFF60013013	Aqueous	30-Jan-13 11:42	31-Jan-13 10:31
M0118-02	INF013013	Aqueous	30-Jan-13 12:05	31-Jan-13 10:31
M0118-03	TW-1 013013	Aqueous	30-Jan-13 12:16	31-Jan-13 10:31
M0118-04	TW-2A-013013	Aqueous	30-Jan-13 12:20	31-Jan-13 10:31
M0118-05	TW-3 013013	Aqueous	30-Jan-13 12:24	31-Jan-13 10:31
M0118-06	TB-013013	Aqueous	30-Jan-13 00:00	31-Jan-13 10:31

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.

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
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



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, 1/2013

Laboratory Workorder / SDG #: M0118

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:

INF013013 (M0118-02A) : Dilution Factor: 20
TW-1 013013 (M0118-03A) : Dilution Factor: 4
TW-2A-013013 (M0118-04A) : 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. L.', written over a horizontal line.

Signed: _____

Date: _____ 2/18/2013 _____

REPORT NARRATIVE

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

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 1/2013

Laboratory Workorder / SDG #: M0118

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: 02/19/13

REPORT NARRATIVE

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

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 1/2013

Laboratory Workorder / SDG #: M0118

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: 02/19/13

REPORT NARRATIVE

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

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 1/2013

Laboratory Workorder / SDG #: M0118

EPA 1664A, Oil & Grease, HEM

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:
EPA 1664A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used to perform Oil and Grease analysis.

Instrument Type: Analytical Balance
Manufacturer: Denver Instrument Company
Model: A-250

VI. ANALYSIS

A. Calibration:

Analytical balance was calibrated based on SOP/Method 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 matrix spike analyses were included in this SDG.

D. Duplicate sample:

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

E. 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: 02/19/13

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF60013013

Lab ID: M0118-01

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 11:42

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Chloroethane	ND		0.50	ug/L	1	02/04/2013 15:45	70325
1,1-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
trans-1,2-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Methyl tert-butyl ether	ND		0.50	ug/L	1	02/04/2013 15:45	70325
1,1-Dichloroethane	ND		0.50	ug/L	1	02/04/2013 15:45	70325
cis-1,2-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
1,1,1-Trichloroethane	ND		0.50	ug/L	1	02/04/2013 15:45	70325
1,2-Dichloroethane	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Benzene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Trichloroethene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Toluene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
1,1,2-Trichloroethane	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Tetrachloroethene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Chlorobenzene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Ethylbenzene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
m,p-Xylene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
o-Xylene	ND		0.50	ug/L	1	02/04/2013 15:45	70325
Surrogate: Dibromofluoromethane	97.9		88-124	%REC	1	02/04/2013 15:45	70325
Surrogate: 1,2-Dichloroethane-d4	86.7		79-115	%REC	1	02/04/2013 15:45	70325
Surrogate: Toluene-d8	101		80-114	%REC	1	02/04/2013 15:45	70325
Surrogate: Bromofluorobenzene	102		60-123	%REC	1	02/04/2013 15:45	70325

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

Client: AECOM Technical Services, Inc.

Client Sample ID: INF013013

Lab ID: M0118-02

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 12:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		10	ug/L		20 02/04/2013 16:12	70325
Chloroethane	ND		10	ug/L		20 02/04/2013 16:12	70325
1,1-Dichloroethene	ND		10	ug/L		20 02/04/2013 16:12	70325
trans-1,2-Dichloroethene	ND		10	ug/L		20 02/04/2013 16:12	70325
Methyl tert-butyl ether	ND		10	ug/L		20 02/04/2013 16:12	70325
1,1-Dichloroethane	120		10	ug/L		20 02/04/2013 16:12	70325
cis-1,2-Dichloroethene	15		10	ug/L		20 02/04/2013 16:12	70325
1,1,1-Trichloroethane	210		10	ug/L		20 02/04/2013 16:12	70325
1,2-Dichloroethane	ND		10	ug/L		20 02/04/2013 16:12	70325
Benzene	ND		10	ug/L		20 02/04/2013 16:12	70325
Trichloroethene	260		10	ug/L		20 02/04/2013 16:12	70325
Toluene	ND		10	ug/L		20 02/04/2013 16:12	70325
1,1,2-Trichloroethane	ND		10	ug/L		20 02/04/2013 16:12	70325
Tetrachloroethene	ND		10	ug/L		20 02/04/2013 16:12	70325
Chlorobenzene	ND		10	ug/L		20 02/04/2013 16:12	70325
Ethylbenzene	ND		10	ug/L		20 02/04/2013 16:12	70325
m,p-Xylene	ND		10	ug/L		20 02/04/2013 16:12	70325
o-Xylene	ND		10	ug/L		20 02/04/2013 16:12	70325
Surrogate: Dibromofluoromethane	98.6		88-124	%REC		20 02/04/2013 16:12	70325
Surrogate: 1,2-Dichloroethane-d4	82.1		79-115	%REC		20 02/04/2013 16:12	70325
Surrogate: Toluene-d8	103		80-114	%REC		20 02/04/2013 16:12	70325
Surrogate: Bromofluorobenzene	102		60-123	%REC		20 02/04/2013 16:12	70325

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

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1 013013

Lab ID: M0118-03

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 12:16

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Chloroethane	ND		2.0	ug/L	4	02/04/2013 16:40	70325
1,1-Dichloroethene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
trans-1,2-Dichloroethene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Methyl tert-butyl ether	ND		2.0	ug/L	4	02/04/2013 16:40	70325
1,1-Dichloroethane	18		2.0	ug/L	4	02/04/2013 16:40	70325
cis-1,2-Dichloroethene	2.2		2.0	ug/L	4	02/04/2013 16:40	70325
1,1,1-Trichloroethane	35		2.0	ug/L	4	02/04/2013 16:40	70325
1,2-Dichloroethane	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Benzene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Trichloroethene	43		2.0	ug/L	4	02/04/2013 16:40	70325
Toluene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
1,1,2-Trichloroethane	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Tetrachloroethene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Chlorobenzene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Ethylbenzene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
m,p-Xylene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
o-Xylene	ND		2.0	ug/L	4	02/04/2013 16:40	70325
Surrogate: Dibromofluoromethane	99.5		88-124	%REC	4	02/04/2013 16:40	70325
Surrogate: 1,2-Dichloroethane-d4	82.5		79-115	%REC	4	02/04/2013 16:40	70325
Surrogate: Toluene-d8	103		80-114	%REC	4	02/04/2013 16:40	70325
Surrogate: Bromofluorobenzene	102		60-123	%REC	4	02/04/2013 16:40	70325

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

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A-013013

Lab ID: M0118-04

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 12:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		20	ug/L		40 02/04/2013 17:08	70325
Chloroethane	ND		20	ug/L		40 02/04/2013 17:08	70325
1,1-Dichloroethene	120		20	ug/L		40 02/04/2013 17:08	70325
trans-1,2-Dichloroethene	ND		20	ug/L		40 02/04/2013 17:08	70325
Methyl tert-butyl ether	ND		20	ug/L		40 02/04/2013 17:08	70325
1,1-Dichloroethane	500		20	ug/L		40 02/04/2013 17:08	70325
cis-1,2-Dichloroethene	90		20	ug/L		40 02/04/2013 17:08	70325
1,1,1-Trichloroethane	58		20	ug/L		40 02/04/2013 17:08	70325
1,2-Dichloroethane	ND		20	ug/L		40 02/04/2013 17:08	70325
Benzene	ND		20	ug/L		40 02/04/2013 17:08	70325
Trichloroethene	790		20	ug/L		40 02/04/2013 17:08	70325
Toluene	ND		20	ug/L		40 02/04/2013 17:08	70325
1,1,2-Trichloroethane	ND		20	ug/L		40 02/04/2013 17:08	70325
Tetrachloroethene	ND		20	ug/L		40 02/04/2013 17:08	70325
Chlorobenzene	ND		20	ug/L		40 02/04/2013 17:08	70325
Ethylbenzene	ND		20	ug/L		40 02/04/2013 17:08	70325
m,p-Xylene	ND		20	ug/L		40 02/04/2013 17:08	70325
o-Xylene	ND		20	ug/L		40 02/04/2013 17:08	70325
Surrogate: Dibromofluoromethane	95.9		88-124	%REC		40 02/04/2013 17:08	70325
Surrogate: 1,2-Dichloroethane-d4	82.8		79-115	%REC		40 02/04/2013 17:08	70325
Surrogate: Toluene-d8	104		80-114	%REC		40 02/04/2013 17:08	70325
Surrogate: Bromofluorobenzene	102		60-123	%REC		40 02/04/2013 17:08	70325

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

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3 013013

Lab ID: M0118-05

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 12:24

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Chloroethane	ND		0.50	ug/L	1	02/04/2013 17:35	70325
1,1-Dichloroethene	2.4		0.50	ug/L	1	02/04/2013 17:35	70325
trans-1,2-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Methyl tert-butyl ether	ND		0.50	ug/L	1	02/04/2013 17:35	70325
1,1-Dichloroethane	18		0.50	ug/L	1	02/04/2013 17:35	70325
cis-1,2-Dichloroethene	0.63		0.50	ug/L	1	02/04/2013 17:35	70325
1,1,1-Trichloroethane	5.7		0.50	ug/L	1	02/04/2013 17:35	70325
1,2-Dichloroethane	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Benzene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Trichloroethene	13		0.50	ug/L	1	02/04/2013 17:35	70325
Toluene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
1,1,2-Trichloroethane	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Tetrachloroethene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Chlorobenzene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Ethylbenzene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
m,p-Xylene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
o-Xylene	ND		0.50	ug/L	1	02/04/2013 17:35	70325
Surrogate: Dibromofluoromethane	96.2		88-124	%REC	1	02/04/2013 17:35	70325
Surrogate: 1,2-Dichloroethane-d4	84.7		79-115	%REC	1	02/04/2013 17:35	70325
Surrogate: Toluene-d8	104		80-114	%REC	1	02/04/2013 17:35	70325
Surrogate: Bromofluorobenzene	102		60-123	%REC	1	02/04/2013 17:35	70325

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

Client: AECOM Technical Services, Inc.

Client Sample ID: TB-013013

Lab ID: M0118-06

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Chloroethane	ND		0.50	ug/L	1	02/04/2013 18:03	70325
1,1-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
trans-1,2-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Methyl tert-butyl ether	ND		0.50	ug/L	1	02/04/2013 18:03	70325
1,1-Dichloroethane	ND		0.50	ug/L	1	02/04/2013 18:03	70325
cis-1,2-Dichloroethene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
1,1,1-Trichloroethane	ND		0.50	ug/L	1	02/04/2013 18:03	70325
1,2-Dichloroethane	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Benzene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Trichloroethene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Toluene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
1,1,2-Trichloroethane	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Tetrachloroethene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Chlorobenzene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Ethylbenzene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
m,p-Xylene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
o-Xylene	ND		0.50	ug/L	1	02/04/2013 18:03	70325
Surrogate: Dibromofluoromethane	96.1		88-124	%REC	1	02/04/2013 18:03	70325
Surrogate: 1,2-Dichloroethane-d4	82.6		79-115	%REC	1	02/04/2013 18:03	70325
Surrogate: Toluene-d8	105		80-114	%REC	1	02/04/2013 18:03	70325
Surrogate: Bromofluorobenzene	102		60-123	%REC	1	02/04/2013 18:03	70325

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: M0118

SW8260_25_W

Project: NOW Corp. Site, 1/2013

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

Sample ID: MB-70325	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 02/04/13 8:27	Run ID: V5_130204A						
Client ID: MB-70325	Batch ID: 70325	Units: ug/L	Analysis Date: 02/04/13 15:16	SeqNo: 1862941						
Analyte	Result	MDL	SPK value	SPK Ref Val	HighLimit	LowLimit	%RPD	RPD Ref Val	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:	9.941		10.00	0	99.4	88	124	0		
Dibromofluoromethane										
Surrogate: 1,2-	8.831		10.00	0	88.3	79	115	0		
Dichloroethane-d4										
Surrogate: Toluene-d8	10.23		10.00	0	102	80	114	0		
Surrogate:	10.16		10.00	0	102	60	123	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
 m13.01.13.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.

Work Order: M0118

Project: NOW Corp. Site, 1/2013

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID:	LCS-70325	SampType:	LCS	TestCode:	SW8260_25_W	Prep Date:	02/04/13 8:27	Run ID:	V5_130204A			
Client ID:	LCS-70325	Batch ID:	70325	Units:	ug/L	Analysis Date:	02/04/13 13:53	SeqNo:	1862939			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.377	0.15	0.50	10.00	0	93.8	77	120	0			
Chloroethane	9.686	0.24	0.50	10.00	0	96.9	75	135	0			
1,1-Dichloroethene	9.901	0.19	0.50	10.00	0	99.0	81	125	0			
trans-1,2-Dichloroethene	9.861	0.14	0.50	10.00	0	98.6	60	137	0			
Methyl tert-butyl ether	10.37	0.13	0.50	10.00	0	104	61	134	0			
1,1-Dichloroethane	10.43	0.18	0.50	10.00	0	104	82	120	0			
cis-1,2-Dichloroethene	10.19	0.19	0.50	10.00	0	102	84	116	0			
1,1,1-Trichloroethane	10.14	0.11	0.50	10.00	0	101	80	124	0			
1,2-Dichloroethane	10.54	0.16	0.50	10.00	0	105	86	117	0			
Benzene	10.32	0.12	0.50	10.00	0	103	81	121	0			
Trichloroethene	10.16	0.13	0.50	10.00	0	102	74	123	0			
Toluene	10.40	0.14	0.50	10.00	0	104	88	117	0			
1,1,2-Trichloroethane	10.34	0.20	0.50	10.00	0	103	83	121	0			
Tetrachloroethene	10.15	0.17	0.50	10.00	0	102	74	115	0			
Chlorobenzene	10.31	0.13	0.50	10.00	0	103	83	112	0			
Ethylbenzene	10.35	0.13	0.50	10.00	0	104	87	110	0			
m,p-Xylene	20.63	0.22	0.50	20.00	0	103	87	114	0			
o-Xylene	10.34	0.17	0.50	10.00	0	103	84	114	0			
Surrogate:	10.03		0.50	10.00	0	100	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-	9.418		0.50	10.00	0	94.2	79	115	0			
Dichloroethane-d4												
Surrogate: Toluene-d8	9.843		0.50	10.00	0	98.4	80	114	0			
Surrogate:	10.14		0.50	10.00	0	101	60	123	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
 m13.01.13.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: M0118

SW8260_25_W

Project: NOW Corp. Site, 1/2013

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

Sample ID:	LCSD-70325	SampType:	LCSD	TestCode:	SW8260_25_W	Prep Date:	02/04/13 8:27	Run ID:	V5_130204A				
Client ID:	LCSD-70325	Batch ID:	70325	Units:	ug/L	Analysis Date:	02/04/13 14:21	SeqNo:	1862940				
Analyte	Result	MDL	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.547	0.15	0.50	0.50	10.00	0	95.5	77	120	9.377	1.8	40	
Chloroethane	9.379	0.24	0.50	0.50	10.00	0	93.8	75	135	9.686	3.23	40	
1,1-Dichloroethene	9.956	0.19	0.50	0.50	10.00	0	99.6	81	125	9.901	0.56	40	
trans-1,2-Dichloroethene	9.917	0.14	0.50	0.50	10.00	0	99.2	60	137	9.861	0.569	40	
Methyl tert-butyl ether	9.960	0.13	0.50	0.50	10.00	0	99.6	61	134	10.37	4.03	40	
1,1-Dichloroethane	10.38	0.18	0.50	0.50	10.00	0	104	82	120	10.43	0.525	40	
cis-1,2-Dichloroethene	10.03	0.19	0.50	0.50	10.00	0	100	84	116	10.19	1.6	40	
1,1,1-Trichloroethane	10.04	0.11	0.50	0.50	10.00	0	100	80	124	10.14	0.947	40	
1,2-Dichloroethane	10.27	0.16	0.50	0.50	10.00	0	103	86	117	10.54	2.59	40	
Benzene	10.24	0.12	0.50	0.50	10.00	0	102	81	121	10.32	0.836	40	
Trichloroethene	9.958	0.13	0.50	0.50	10.00	0	99.6	74	123	10.16	2.0	40	
Toluene	10.31	0.14	0.50	0.50	10.00	0	103	88	117	10.40	0.828	40	
1,1,2-Trichloroethane	10.10	0.20	0.50	0.50	10.00	0	101	83	121	10.34	2.35	40	
Tetrachloroethene	10.23	0.17	0.50	0.50	10.00	0	102	74	115	10.15	0.75	40	
Chlorobenzene	10.35	0.13	0.50	0.50	10.00	0	104	83	112	10.31	0.428	40	
Ethylbenzene	10.33	0.13	0.50	0.50	10.00	0	103	87	110	10.35	0.254	40	
m,p-Xylene	20.75	0.22	0.50	0.50	20.00	0	104	87	114	20.63	0.58	40	
o-Xylene	10.32	0.17	0.50	0.50	10.00	0	103	84	114	10.34	0.186	40	
Surrogate:	9.852		0.50	0.50	10.00	0	98.5	88	124	0			
Dibromofluoromethane													
Surrogate: 1,2-	9.223		0.50	0.50	10.00	0	92.2	79	115	0			
Dichloroethane-d4													
Surrogate: Toluene-d8	10.26		0.50	0.50	10.00	0	103	80	114	0			
Surrogate:	10.17		0.50	0.50	10.00	0	102	60	123	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
 m13.01.13.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

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

02/19/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF60013013

Lab ID: M0118-01

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 11:42

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Aluminum	ND		200	ug/L		1 02/04/2013 9:13	70309
Arsenic	ND		20	ug/L		1 02/04/2013 9:13	70309
Barium	74	J	200	ug/L		1 02/04/2013 9:13	70309
Chromium	ND		20	ug/L		1 02/04/2013 9:13	70309
Copper	ND		25	ug/L		1 02/04/2013 9:13	70309
Iron	ND		200	ug/L		1 02/04/2013 9:13	70309
Manganese	73		50	ug/L		1 02/04/2013 9:13	70309
Nickel	0.99	J	50	ug/L		1 02/04/2013 9:13	70309
Zinc	ND		50	ug/L		1 02/04/2013 9:13	70309
SW846 7470A -- Mercury by FIA							SW7470
Mercury	ND		0.20	µg/L		1 02/04/2013 13:12	70307

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

02/19/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: INF013013

Lab ID: M0118-02

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 12:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W
Aluminum	ND	200 ug/L	1 02/04/2013 9:17	70309
Arsenic	ND	20 ug/L	1 02/04/2013 9:17	70309
Barium	74 J	200 ug/L	1 02/04/2013 9:17	70309
Chromium	ND	20 ug/L	1 02/04/2013 9:17	70309
Copper	ND	25 ug/L	1 02/04/2013 9:17	70309
Iron	ND	200 ug/L	1 02/04/2013 9:17	70309
Manganese	110	50 ug/L	1 02/04/2013 9:17	70309
Nickel	1.1 J	50 ug/L	1 02/04/2013 9:17	70309
Zinc	7.5 J	50 ug/L	1 02/04/2013 9:17	70309
SW846 7470A -- Mercury by FIA				SW7470
Mercury	ND	0.20 µg/L	1 02/04/2013 13:13	70307

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: M0118
Project: NOW Corp. Site, 1/2013

SW6010_W
SW846 6010C -- Metals by ICP

Sample ID: MB-70309	SampType: MBLK	TestCode: SW6010_W	Prep Date: 02/01/13 10:30	Run ID: OPTIMA3_130204A							
Client ID: MB-70309	Batch ID: 70309	Units: ug/L	Analysis Date: 02/04/13 8:51	SeqNo: 1862417							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	66					200				
Arsenic	ND	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-70309	SampType: LCS	TestCode: SW6010_W	Prep Date: 02/01/13 10:30	Run ID: OPTIMA3_130204A							
Client ID: LCS-70309	Batch ID: 70309	Units: ug/L	Analysis Date: 02/04/13 8:55	SeqNo: 1862418							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9508	66	9100	0	104	80	120	0			
Arsenic	483.5	4.3	455.0	0	106	80	120	0			
Barium	9694	1.1	9100	0	107	80	120	0			
Chromium	934.6	0.64	910.0	0	103	80	120	0			
Copper	1170	3.6	1130	0	104	80	120	0			
Iron	4658	31	4550	0	102	80	120	0			
Manganese	2397	10	2270	0	106	80	120	0			
Nickel	2373	0.85	2270	0	105	80	120	0			
Zinc	2392	4.9	2270	0	105	80	120	0			

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: M0118

SW6010_W

Project: NOW Corp. Site, 1/2013

SW846 6010C -- Metals by ICP

Sample ID: LCSD-70309 SampType: LCSD TestCode: SW6010_W Prep Date: 02/01/13 10:30 Run ID: OPTIMA3_130204A

Client ID: LCSD-70309 Batch ID: 70309 Units: ug/L Analysis Date: 02/04/13 8:59 SeqNo: 1862420

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9486	66	200	9100	0	104	80	120	9508	0.223	20	
Arsenic	479.8	4.3	20	455.0	0	105	80	120	483.5	0.772	20	
Barium	9607	1.1	200	9100	0	106	80	120	9694	0.909	20	
Chromium	928.7	0.64	20	910.0	0	102	80	120	934.6	0.628	20	
Copper	1166	3.6	30	1130	0	103	80	120	1170	0.369	20	
Iron	4697	31	200	4550	0	103	80	120	4658	0.851	20	
Manganese	2378	10	50	2270	0	105	80	120	2397	0.808	20	
Nickel	2359	0.85	50	2270	0	104	80	120	2373	0.562	20	
Zinc	2378	4.9	50	2270	0	105	80	120	2392	0.582	20	

Qualifiers: ND - Not Detected at the MDL

J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits

R - RPD 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: M0118

Project: NOW Corp. Site, 1/2013

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: MB-70307	SampType: MBLK	TestCode: SW7470	Prep Date: 02/01/13 12:00	Run ID: FIMS2_130204B						
Client ID: MB-70307	Batch ID: 70307	Units: µg/L	Analysis Date: 02/04/13 12:30	SeqNo: 1862700						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03398	0.028	0.028	0.20						J

Sample ID: LCS-70307	SampType: LCS	TestCode: SW7470	Prep Date: 02/01/13 12:00	Run ID: FIMS2_130204B						
Client ID: LCS-70307	Batch ID: 70307	Units: µg/L	Analysis Date: 02/04/13 12:32	SeqNo: 1862702						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.975	0.028	0.028	0.20	4.550	0	1.09	80	1.20	0

Sample ID: LCSD-70307	SampType: LCSD	TestCode: SW7470	Prep Date: 02/01/13 12:00	Run ID: FIMS2_130204B						
Client ID: LCSD-70307	Batch ID: 70307	Units: µg/L	Analysis Date: 02/04/13 12:33	SeqNo: 1862703						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.887	0.028	0.028	0.20	4.550	0	1.07	80	1.20	4.975

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

02/19/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF60013013

Lab ID: M0118-01

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 11:42

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							SM2540_TDS
Total Dissolved Solids	260		10	mg/L	1	02/06/2013 22:52	70400
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	02/07/2013 3:36	70401
SW846 9012B -- Total Cyanide							SW9012_W
Cyanide	ND		10	ug/L	1	02/07/2013 11:23	70376

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

02/19/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: INF013013

Lab ID: M0118-02

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 12:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							SM2540_TDS
Total Dissolved Solids	260		10	mg/L	1	02/07/2013 0:00	70400
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	02/07/2013 5:24	70401
SW846 9012B -- Total Cyanide							SW9012_W
Cyanide	ND		10	ug/L	1	02/07/2013 11:26	70376

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: M0118
Project: NOW Corp. Site, 1/2013

SM2540_TDS
SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: MB-70400	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 02/06/13 15:00	Run ID: MANUAL_130206C						
Client ID: MB-70400	Batch ID: 70400	Units: mg/L	Analysis Date: 02/06/13 15:00	SeqNo: 1864545						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids ND 10 10

Sample ID: LCS-70400	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 02/06/13 15:00	Run ID: MANUAL_130206C						
Client ID: LCS-70400	Batch ID: 70400	Units: mg/L	Analysis Date: 02/06/13 16:07	SeqNo: 1864546						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids 1.65.0 10 10 1.59.0 0 1.04 80 1.20 0

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: M0118

Project: NOW Corp. Site, 1/2013

SM2540_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: MB-70401	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 02/06/13 15:00	Run ID: MANUAL_130206B
Client ID: MB-70401	Batch ID: 70401	Units: mg/L	Analysis Date: 02/06/13 15:00	SeqNo: 1864535
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
	ND	10	%REC	%RPD
Total Suspended Solids		10	LowLimit	HighLimit
			0	1.20

Sample ID: LCS-70401	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 02/06/13 15:00	Run ID: MANUAL_130206B
Client ID: LCS-70401	Batch ID: 70401	Units: mg/L	Analysis Date: 02/06/13 16:48	SeqNo: 1864536
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
	65.00	10	0	0
Total Suspended Solids		10	%REC	%RPD
			96.3	80
			LowLimit	HighLimit
			0	1.20

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: M0118

Project: NOW Corp. Site, 1/2013

SW9012_W

SW846 9012B -- Total Cyanide

Sample ID: MB-70376	SampType: MBLK	TestCode: SW9012_W	Prep Date: 02/05/13 11:00	Run ID: LACHAT1_130207A
Client ID: MB-70376	Batch ID: 70376	Units: ug/L	Analysis Date: 02/07/13 11:18	SeqNo: 1864048
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	7.5	0	10.1
			SPK value	LowLimit
				HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: LCS-70376	SampType: LCS	TestCode: SW9012_W	Prep Date: 02/05/13 11:00	Run ID: LACHAT1_130207A
Client ID: LCS-70376	Batch ID: 70376	Units: ug/L	Analysis Date: 02/07/13 11:21	SeqNo: 1864049
Analyte	Result	MDL	SPK Ref Val	%REC
	100.7	7.5	0	10.1
			SPK value	LowLimit
				HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

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

02/19/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF60013013

Lab ID: M0118-01

Project: NOW Corp. Site, 1/2013

Collection Date: 01/30/13 11:42

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 1664A -- Oil & Grease, HEM				E1664
Oil & Grease, Total Recoverable	ND	5.0 mg/L	1 02/07/2013 0:00	70378

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

02/19/2013

Client: AECOM Technical Services, Inc.**Client Sample ID:** INF013013**Project:** NOW Corp. Site, 1/2013**Lab ID:** M0118-02**Collection Date:** 01/30/13 12:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 1664A -- Oil & Grease, HEM				E1664
Oil & Grease, Total Recoverable	ND	5.0 mg/L	102/07/2013 0:00	70378

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: M0118
Project: NOW Corp. Site, 1/2013

E1664
EPA 1664A -- Oil & Grease, HEM

Sample ID: MB-70378	SampType: MBLK	TestCode: E1664	Prep Date: 02/05/13 15:11	Run ID: MANUAL_130207A
Client ID: MB-70378	Batch ID: 70378	Units: mg/L	Analysis Date: 02/07/13 0:00	SeqNo: 1864075
Analyte	Result	MDL	SPK RefVal	%REC LowLimit HighLimit
Oil & Grease, Total Recoverable	ND	1.2	0	78 114
			SPK value	RPD RefVal
			40.00	0
				%RPD RPDLimit
				5.0

Sample ID: LCS-70378	SampType: LCS	TestCode: E1664	Prep Date: 02/05/13 15:11	Run ID: MANUAL_130207A
Client ID: LCS-70378	Batch ID: 70378	Units: mg/L	Analysis Date: 02/07/13 0:00	SeqNo: 1864067
Analyte	Result	MDL	SPK RefVal	%REC LowLimit HighLimit
Oil & Grease, Total Recoverable	42.90	1.2	0	78 114
			SPK value	RPD RefVal
			40.00	0
				%RPD RPDLimit
				5.0

Sample ID: LCSD-70378	SampType: LCSD	TestCode: E1664	Prep Date: 02/05/13 15:11	Run ID: MANUAL_130207A
Client ID: LCSD-70378	Batch ID: 70378	Units: mg/L	Analysis Date: 02/07/13 0:00	SeqNo: 1864068
Analyte	Result	MDL	SPK RefVal	%REC LowLimit HighLimit
Oil & Grease, Total Recoverable	36.10	1.2	0	78 114
			SPK value	RPD RefVal
			40.00	42.90
				17.2
				18

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

B - Analyte detected in the associated Method Blank

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

WorkOrder: M0118

Client ID: EARTH_NY

Case: HC Due: 02/19/13

Report Level: LEVEL 2

Project: NOW Corp. Site

Special Program:

WO Name: NOW Corp. Site, 1/2013

Fax Due:

Fax Report:

EDD:

Location: NOW_CORP,

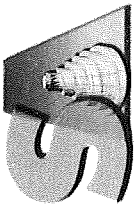
PO: 6027 6639 1

Comments: N/A

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M0118-01A	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	SW8260_25_W	/				Y	VOA
M0118-01B	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	SW6010_W	/ See SEL list				Y	M3
M0118-01B	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	SW7470	/ See SEL list					M3
M0118-01C	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	SM2540_TDS	/					B2
M0118-01C	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	SM2540_TSS	/					B2
M0118-01D	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	SW9012_W	/				Y	B2
M0118-01E	EFF60013013	01/30/2013 11:42	01/31/2013	Aqueous	E1664	/					B2
M0118-02A	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	SW8260_25_W	/				Y	VOA
M0118-02B	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	SW6010_W	/ See SEL list				Y	M3
M0118-02B	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	SW7470	/ See SEL list					M3
M0118-02C	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	SM2540_TDS	/					B2
M0118-02C	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	SM2540_TSS	/					B2
M0118-02D	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	SW9012_W	/				Y	B2
M0118-02E	INF013013	01/30/2013 12:05	01/31/2013	Aqueous	E1664	/					B2
M0118-03A	TW-1 013013	01/30/2013 12:16	01/31/2013	Aqueous	SW8260_25_W	/				Y	VOA
M0118-04A	TW-2A-013013	01/30/2013 12:20	01/31/2013	Aqueous	SW8260_25_W	/				Y	VOA
M0118-05A	TW-3 013013	01/30/2013 12:24	01/31/2013	Aqueous	SW8260_25_W	/				Y	VOA
M0118-06A	TB-013013	01/30/2013 00:00	01/31/2013	Aqueous	SW8260_25_W	/				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

Page of

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: AIECOM
40 British American Blvd.
Latham NY 12110

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60276639
Site Name: New Corp
Location: Staatsburgh State: NY
Sampler(s): SRG

Project Mgr.: Stephen Cheiniers

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 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:

Meta/lo*
TSS/TDS
C+G
Cyanide

QA/QC Reporting Level

- Level I
- Level II
- Level III
- Level IV
- Other _____

Matrix

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type
01	EFF60 013013	1/30/13	11:42	
02	INF 013013		12:05	
03	TW-1 013013		12:16	
04	TW-2A 013013		12:20	
05	TW-3 013013		12:24	
06	TB - 013013			

no18
↓
no18

*Al, As, Bq, Cr, Cu, Fe, Mn, Hg, Zn, N

State specific reporting standards:

E-mail to _____

EDD Format _____

Condition upon receipt: Iced Ambient °C 3

Relinquished by: Steve Jay

Received by: [Signature]

Time: _____

Date: _____

1/30/13 15:15

1/31/13 10:31

Received By: <i>[Signature]</i>	Page 01 of 00
Reviewed By: <i>[Signature]</i>	Log-in Date 01/31/2013
Work Order: M0118	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) Present / Absent	M0118-01	<2		<2	>12		H	
Intact / Broken	M0118-02	<2		<2	>12		H	
2. Custody Seal Nos. N/A	M0118-03						H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists Present / Absent	M0118-04						H	
	M0118-05						H	
	M0118-06						H	

4. Airbill AirBill / Sticker
Present / Absent

5. Airbill No. FedEx 8996 2349 6024

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 3 °C

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

11. Date Received at Laboratory 01/31/2013

12. Time Received 10:31

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

Last Page of Data Report