



Operation, Maintenance and Monitoring Report

December 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

February 2013



February 15, 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: "December" 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 29-day period (**November 28 – December 27, 2012**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 550,500 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 18,983 gallons per day (gpd), compared to 18,421 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 90,462,400 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 December 27. **Effluent limitations were not exceeded this reporting period.** A copy of the analytical laboratory report is attached. Table 2 and Table 3 summarize selected operational data and water levels as recorded on the sampling date. The effluent samples were collected while the VFD on the stripper blower was operating at 55 Hz.

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

December 5 – AECOM was onsite to replace the 4" air stripper effluent pipe with a 2" pipe. The objective was to be able to lower the VFD speed from its maximum setting, 60 HZ, to a lower speed while still achieving the air flow and stripper pressure values required for adequate stripper performance. It was determined through the use of an air velocity meter and reading the air stripper pressure readings that adequate stripper performance requirements were met at 55 Hz. AECOM kept the system at 55 Hz to monitor its removal effectiveness for the upcoming sampling event.

December 27 – AECOM was onsite to complete quarterly water level measurements and monthly influent, effluent, and recovery well sampling.

The system efficiency and runtime was evaluated over the month. Except for the maintenance performed on December 5, 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: December 27, 2012
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total	Effluent	Recovery Wells			Effluent Limitations	
	Influent		TW-1	TW-2A	TW-3	(units)	
Quantity treated, per day		18,983				Monitor	gallons
pH	6.8	6.9				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	270	270	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	77 J	76 J	NA	NA	NA	Monitor	ug/L
Chromium	<20	<20	NA	NA	NA	400	ug/L
Copper	4.7 J	<25	NA	NA	NA	24	ug/L
Iron	<200	<200	NA	NA	NA	600	ug/L
Mercury	0.11 J	0.087 J	NA	NA	NA	0.8	ug/L
Manganese	180	110	NA	NA	NA	Monitor	ug/L
Nickel	2.2 J	1.2 J	NA	NA	NA	200	ug/L
Zinc	6.2 J	<50	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	280	<0.5	2.1	440	14	10	ug/L
1,1,2-Trichloroethane	<10	<0.5	<2	<20	<0.5	1.2	ug/L
1,1-Dichloroethane	140	<0.5	40	200	22	10	ug/L
1,1-Dichloroethene	19	<0.5	12	27	2	0.5	ug/L
1,2-Dichloroethane	<10	<0.5	<2	<20	14	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
cis -1,2-Dichloroethene	17	<0.5	3.8	21	0.53	5	ug/L
Ethylbenzene	<10	<0.5	<2	<20	<0.5	10	ug/L
o-Xylene	<10	<0.5	<2	<20	<0.5	5	ug/L
m,p-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
trans -1,2-Dichloroethene	<10	<0.5	<2	<20	<0.5	5	ug/L
Trichloroethene	310	<0.5	44	470	17	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 December 2012 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:	12/27/12	Units
<i>TW-1</i>		
Pumping Rate	1	GPM
Water Level Above Transducer	23.48	feet
Flow Meter Reading	6,392,200	gallons
Pump Pressure	75	psi
<i>TW-2A</i>		
Pumping Rate	~14	GPM
Water Level Above Transducer	36.43	feet
Flow Meter Reading	25,612,800	gallons
Pump Pressure	80	psi
<i>TW-3</i>		
Pumping Rate	3	GPM
Water Level Above Transducer	25.35	feet
Flow Meter Reading	10,053,800	gallons
Pump Pressure	65	psi
<i>Air Stripper</i>		
Stripper Blower Pressure	18.5	inches H ₂ O
Air Temperature in Stripper	50	°F
<i>Effluent Flow</i>		
Effluent Flow this period (calculated)	550,500	gallons
Total Effluent Flow (calculated)	90,462,400	gallons

Table 3
Groundwater Levels

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

Well ID	MP Elevation	12/27/12	
		Depth to Water (Ft below MP)	GW Elevation
MW-1	289.50	12.08	277.42
MW-2	332.51	25.15	307.36
MW-3	312.83	27.37	285.46
MW-3S	312.51	25.41	287.10
MW-4	298.29	22.12	276.17
MW-4D	298.16	21.94	276.22
MW-5	285.48	19.08	266.40
MW-6S	287.90	4.64	283.26
MW-6D	287.25	8.94	278.31
MW-7S	292.12	23.61	268.51
MW-7D	292.54	56.49	236.05
OW-1	307.75	50.89	256.86
OW-2	305.96	71.00	234.96
OW-6	294.81	4.97	289.84
IW-1	312.46	31.69	280.77
IW-2	304.56	39.57	264.99

Note: N/A indicates data are not available.

MP denotes measuring point.

Report Date:
16-Jan-13 14:52

- Final Report
 Re-Issued Report
 Revised Report



Laboratory Report

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

Work Order: L2642
Project : NOW Corp. Site, 12/2012
Project #:

Attn: Stephen Choiniere

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2642-01	EFF 122712	Aqueous	27-Dec-12 13:25	28-Dec-12 11:40
L2642-02	INF 122712	Aqueous	27-Dec-12 13:37	28-Dec-12 11:40
L2642-03	TW-1 122712	Aqueous	27-Dec-12 13:43	28-Dec-12 11:40
L2642-04	TW-2A 122712	Aqueous	27-Dec-12 13:48	28-Dec-12 11:40
L2642-05	TW-3 122712	Aqueous	27-Dec-12 13:52	28-Dec-12 11:40
L2642-06	TB 122712	Aqueous	27-Dec-12 00:00	28-Dec-12 11:40

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 samples(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, 12/2012

Laboratory Workorder / SDG #: L2642

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 122712 (L2642-02A) : Dilution Factor: 20
TW-1 122712 (L2642-03A) : Dilution Factor: 4
TW-2A 122712 (L2642-04A) : 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.



Signed: _____

Date: _____ 1/13/2013 _____

REPORT NARRATIVE

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

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 12/2012

Laboratory Workorder / SDG #: L2642

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):

Serial Dilution analyses were performed on sample: INF 122712 (L2642-02CSD).

Percent differences were within the QC limits.

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: 01/16/13

REPORT NARRATIVE

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

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 12/2012

Laboratory Workorder / SDG #: L2642

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):

Matrix spike was performed on sample: INF 122712 (L2642-02EMS).

Percent recovery was within the QC limits.

D. Duplicate sample:

Duplicate analysis was performed on sample: INF 122712 (L2642-02EDUP).

Relative percent difference was within the QC limits.

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: 01/16/13

REPORT NARRATIVE

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

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site, 12/2012

Laboratory Workorder / SDG #: L2642

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 MS/MSD 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: 
Diane Chwall

Date: 01/16/13

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

01/11/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 122712

Lab ID: L2642-01

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:25

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 01/07/2013 16:48	70022
Chloroethane	ND		0.50 ug/L		1 01/07/2013 16:48	70022
1,1-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
trans-1,2-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Methyl tert-butyl ether	ND		0.50 ug/L		1 01/07/2013 16:48	70022
1,1-Dichloroethane	ND		0.50 ug/L		1 01/07/2013 16:48	70022
cis-1,2-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
1,1,1-Trichloroethane	ND		0.50 ug/L		1 01/07/2013 16:48	70022
1,2-Dichloroethane	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Benzene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Trichloroethene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Toluene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
1,1,2-Trichloroethane	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Tetrachloroethene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Chlorobenzene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Ethylbenzene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
m,p-Xylene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
o-Xylene	ND		0.50 ug/L		1 01/07/2013 16:48	70022
Surrogate: Dibromofluoromethane	101		88-124 %REC		1 01/07/2013 16:48	70022
Surrogate: 1,2-Dichloroethane-d4	87.6		79-115 %REC		1 01/07/2013 16:48	70022
Surrogate: Toluene-d8	102		80-114 %REC		1 01/07/2013 16:48	70022
Surrogate: Bromofluorobenzene	101		60-123 %REC		1 01/07/2013 16:48	70022

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

01/11/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 122712

Lab ID: L2642-02

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:37

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 01/07/2013 17:16	70022
Chloroethane	ND		10	ug/L		20 01/07/2013 17:16	70022
1,1-Dichloroethene	19		10	ug/L		20 01/07/2013 17:16	70022
trans-1,2-Dichloroethene	ND		10	ug/L		20 01/07/2013 17:16	70022
Methyl tert-butyl ether	ND		10	ug/L		20 01/07/2013 17:16	70022
1,1-Dichloroethane	140		10	ug/L		20 01/07/2013 17:16	70022
cis-1,2-Dichloroethene	17		10	ug/L		20 01/07/2013 17:16	70022
1,1,1-Trichloroethane	280		10	ug/L		20 01/07/2013 17:16	70022
1,2-Dichloroethane	ND		10	ug/L		20 01/07/2013 17:16	70022
Benzene	ND		10	ug/L		20 01/07/2013 17:16	70022
Trichloroethene	310		10	ug/L		20 01/07/2013 17:16	70022
Toluene	ND		10	ug/L		20 01/07/2013 17:16	70022
1,1,2-Trichloroethane	ND		10	ug/L		20 01/07/2013 17:16	70022
Tetrachloroethene	ND		10	ug/L		20 01/07/2013 17:16	70022
Chlorobenzene	ND		10	ug/L		20 01/07/2013 17:16	70022
Ethylbenzene	ND		10	ug/L		20 01/07/2013 17:16	70022
m,p-Xylene	ND		10	ug/L		20 01/07/2013 17:16	70022
o-Xylene	ND		10	ug/L		20 01/07/2013 17:16	70022
Surrogate: Dibromofluoromethane	100		88-124	%REC		20 01/07/2013 17:16	70022
Surrogate: 1,2-Dichloroethane-d4	89.7		79-115	%REC		20 01/07/2013 17:16	70022
Surrogate: Toluene-d8	103		80-114	%REC		20 01/07/2013 17:16	70022
Surrogate: Bromofluorobenzene	98.9		60-123	%REC		20 01/07/2013 17:16	70022

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

01/11/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1 122712

Lab ID: L2642-03

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:43

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 01/07/2013 17:43	70022
Chloroethane	ND		2.0 ug/L		4 01/07/2013 17:43	70022
1,1-Dichloroethene	12		2.0 ug/L		4 01/07/2013 17:43	70022
trans-1,2-Dichloroethene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Methyl tert-butyl ether	ND		2.0 ug/L		4 01/07/2013 17:43	70022
1,1-Dichloroethane	40		2.0 ug/L		4 01/07/2013 17:43	70022
cis-1,2-Dichloroethene	3.8		2.0 ug/L		4 01/07/2013 17:43	70022
1,1,1-Trichloroethane	2.1		2.0 ug/L		4 01/07/2013 17:43	70022
1,2-Dichloroethane	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Benzene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Trichloroethene	44		2.0 ug/L		4 01/07/2013 17:43	70022
Toluene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
1,1,2-Trichloroethane	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Tetrachloroethene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Chlorobenzene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Ethylbenzene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
m,p-Xylene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
o-Xylene	ND		2.0 ug/L		4 01/07/2013 17:43	70022
Surrogate: Dibromofluoromethane	98.7		88-124 %REC		4 01/07/2013 17:43	70022
Surrogate: 1,2-Dichloroethane-d4	86.0		79-115 %REC		4 01/07/2013 17:43	70022
Surrogate: Toluene-d8	102		80-114 %REC		4 01/07/2013 17:43	70022
Surrogate: Bromofluorobenzene	98.0		60-123 %REC		4 01/07/2013 17:43	70022

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

01/11/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A 122712

Lab ID: L2642-04

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:48

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	01/07/2013 18:11	70022
Chloroethane	ND		20	ug/L	40	01/07/2013 18:11	70022
1,1-Dichloroethene	27		20	ug/L	40	01/07/2013 18:11	70022
trans-1,2-Dichloroethene	ND		20	ug/L	40	01/07/2013 18:11	70022
Methyl tert-butyl ether	ND		20	ug/L	40	01/07/2013 18:11	70022
1,1-Dichloroethane	200		20	ug/L	40	01/07/2013 18:11	70022
cis-1,2-Dichloroethene	21		20	ug/L	40	01/07/2013 18:11	70022
1,1,1-Trichloroethane	440		20	ug/L	40	01/07/2013 18:11	70022
1,2-Dichloroethane	ND		20	ug/L	40	01/07/2013 18:11	70022
Benzene	ND		20	ug/L	40	01/07/2013 18:11	70022
Trichloroethene	470		20	ug/L	40	01/07/2013 18:11	70022
Toluene	ND		20	ug/L	40	01/07/2013 18:11	70022
1,1,2-Trichloroethane	ND		20	ug/L	40	01/07/2013 18:11	70022
Tetrachloroethene	ND		20	ug/L	40	01/07/2013 18:11	70022
Chlorobenzene	ND		20	ug/L	40	01/07/2013 18:11	70022
Ethylbenzene	ND		20	ug/L	40	01/07/2013 18:11	70022
m,p-Xylene	ND		20	ug/L	40	01/07/2013 18:11	70022
o-Xylene	ND		20	ug/L	40	01/07/2013 18:11	70022
Surrogate: Dibromofluoromethane	98.9		88-124	%REC	40	01/07/2013 18:11	70022
Surrogate: 1,2-Dichloroethane-d4	85.0		79-115	%REC	40	01/07/2013 18:11	70022
Surrogate: Toluene-d8	102		80-114	%REC	40	01/07/2013 18:11	70022
Surrogate: Bromofluorobenzene	99.9		60-123	%REC	40	01/07/2013 18:11	70022

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

01/11/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3 122712

Lab ID: L2642-05

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:52

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 01/07/2013 18:38	70022
Chloroethane	ND		0.50 ug/L		1 01/07/2013 18:38	70022
1,1-Dichloroethene	2.0		0.50 ug/L		1 01/07/2013 18:38	70022
trans-1,2-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Methyl tert-butyl ether	ND		0.50 ug/L		1 01/07/2013 18:38	70022
1,1-Dichloroethane	22		0.50 ug/L		1 01/07/2013 18:38	70022
cis-1,2-Dichloroethene	0.53		0.50 ug/L		1 01/07/2013 18:38	70022
1,1,1-Trichloroethane	14		0.50 ug/L		1 01/07/2013 18:38	70022
1,2-Dichloroethane	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Benzene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Trichloroethene	17		0.50 ug/L		1 01/07/2013 18:38	70022
Toluene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
1,1,2-Trichloroethane	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Tetrachloroethene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Chlorobenzene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Ethylbenzene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
m,p-Xylene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
o-Xylene	ND		0.50 ug/L		1 01/07/2013 18:38	70022
Surrogate: Dibromofluoromethane	97.1		88-124 %REC		1 01/07/2013 18:38	70022
Surrogate: 1,2-Dichloroethane-d4	89.3		79-115 %REC		1 01/07/2013 18:38	70022
Surrogate: Toluene-d8	103		80-114 %REC		1 01/07/2013 18:38	70022
Surrogate: Bromofluorobenzene	101		60-123 %REC		1 01/07/2013 18:38	70022

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

01/11/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: TB 122712

Lab ID: L2642-06

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 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 01/07/2013 19:06	70022
Chloroethane	ND		0.50 ug/L		1 01/07/2013 19:06	70022
1,1-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
trans-1,2-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Methyl tert-butyl ether	ND		0.50 ug/L		1 01/07/2013 19:06	70022
1,1-Dichloroethane	ND		0.50 ug/L		1 01/07/2013 19:06	70022
cis-1,2-Dichloroethene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
1,1,1-Trichloroethane	ND		0.50 ug/L		1 01/07/2013 19:06	70022
1,2-Dichloroethane	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Benzene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Trichloroethene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Toluene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
1,1,2-Trichloroethane	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Tetrachloroethene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Chlorobenzene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Ethylbenzene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
m,p-Xylene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
o-Xylene	ND		0.50 ug/L		1 01/07/2013 19:06	70022
Surrogate: Dibromofluoromethane	100		88-124 %REC		1 01/07/2013 19:06	70022
Surrogate: 1,2-Dichloroethane-d4	88.8		79-115 %REC		1 01/07/2013 19:06	70022
Surrogate: Toluene-d8	103		80-114 %REC		1 01/07/2013 19:06	70022
Surrogate: Bromofluorobenzene	99.2		60-123 %REC		1 01/07/2013 19:06	70022

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.
 Work Order: L2642
 Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT
SW8260_25_W
SW846 8260C -- VOC by GC-MS (25 mL Purge)

Sample ID: MB-70022	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 01/07/13 9:22	Run ID: V5_130107A
Client ID: MB-70022	Batch ID: 70022	Units: ug/L	Analysis Date: 01/07/13 16:20	SeqNo: 1855545
Analyte	Result	MDL	RL	SPK value
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:	9.897	0.50	10.00	0 99.0 88 124 0
Dibromofluoromethane				
Surrogate: 1,2-Dichloroethane-d4	8.745	0.50	10.00	0 87.5 79 115 0
Surrogate: Toluene-d8	10.27	0.50	10.00	0 103 80 114 0
Surrogate: Bromofluorobenzene	10.17	0.50	10.00	0 102 60 123 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

m13.01.03.A

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

RL - Reporting Limit

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CLIENT: AECOM Technical Services, Inc.

Work Order: L2642

Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID: LCS-70022	SampType: LCS	TestCode: SW8260_25_W			Prep Date: 01/07/13 9:22			Run ID: V5_130107A				
Client ID: LCS-70022	Batch ID: 70022	Units: ug/L			Analysis Date: 01/07/13 15:24			SeqNo: 1855543				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	10.40	0.15	0.50	10.00	0	104	77	120	0	0	0	
Chloroethane	9.891	0.24	0.50	10.00	0	98.9	75	135	0	0	0	
1,1-Dichloroethene	10.23	0.19	0.50	10.00	0	102	81	125	0	0	0	
trans-1,2-Dichloroethene	10.21	0.14	0.50	10.00	0	102	60	137	0	0	0	
Methyl tert-butyl ether	9.967	0.13	0.50	10.00	0	99.7	61	134	0	0	0	
1,1-Dichloroethane	10.58	0.18	0.50	10.00	0	106	82	120	0	0	0	
cis-1,2-Dichloroethene	10.72	0.19	0.50	10.00	0	107	84	116	0	0	0	
1,1,1-Trichloroethane	10.56	0.11	0.50	10.00	0	106	80	124	0	0	0	
1,2-Dichloroethane	10.41	0.16	0.50	10.00	0	104	86	117	0	0	0	
Benzene	10.37	0.12	0.50	10.00	0	104	81	121	0	0	0	
Trichloroethene	10.45	0.13	0.50	10.00	0	104	74	123	0	0	0	
Toluene	10.30	0.14	0.50	10.00	0	103	88	117	0	0	0	
1,1,2-Trichloroethane	10.16	0.20	0.50	10.00	0	102	83	121	0	0	0	
Tetrachloroethene	10.19	0.17	0.50	10.00	0	102	74	115	0	0	0	
Chlorobenzene	10.48	0.13	0.50	10.00	0	105	83	112	0	0	0	
Ethylbenzene	10.30	0.13	0.50	10.00	0	103	87	110	0	0	0	
m,p-Xylene	19.90	0.22	0.50	20.00	0	99.5	87	114	0	0	0	
o-Xylene	10.31	0.17	0.50	10.00	0	103	84	114	0	0	0	
Surrogate:	10.20		0.50	10.00	0	102	88	124	0	0	0	
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.309		0.50	10.00	0	93.1	79	115	0	0	0	
Surrogate: Toluene-d8	10.13		0.50	10.00	0	101	80	114	0	0	0	
Surrogate:	9.871		0.50	10.00	0	98.7	60	123	0	0	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

m13.01.03.A

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.

Work Order: L2642

Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID: LCSD-70022	SampType: LCSD	TestCode: SW8260_25_W			Prep Date: 01/07/13 9:22			Run ID: V5_130107A				
Client ID: LCSD-70022	Batch ID: 70022	Units: ug/L			Analysis Date: 01/07/13 15:53			SeqNo: 1855544				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	10.55	0.15	0.50	10.00	0	105	77	120	10.40	1.38	40	
Chloroethane	10.00	0.24	0.50	10.00	0	100	75	135	9.891	1.13	40	
1,1-Dichloroethene	10.46	0.19	0.50	10.00	0	105	81	125	10.23	2.25	40	
trans-1,2-Dichloroethene	10.32	0.14	0.50	10.00	0	103	60	137	10.21	1.04	40	
Methyl tert-butyl ether	9.884	0.13	0.50	10.00	0	98.8	61	134	9.967	0.845	40	
1,1-Dichloroethane	10.65	0.18	0.50	10.00	0	107	82	120	10.58	0.665	40	
cis-1,2-Dichloroethene	10.22	0.19	0.50	10.00	0	102	84	116	10.72	4.8	40	
1,1,1-Trichloroethane	10.28	0.11	0.50	10.00	0	103	80	124	10.56	2.7	40	
1,2-Dichloroethane	10.46	0.16	0.50	10.00	0	105	86	117	10.41	0.408	40	
Benzene	10.45	0.12	0.50	10.00	0	104	81	121	10.37	0.754	40	
Trichloroethene	10.35	0.13	0.50	10.00	0	103	74	123	10.45	0.995	40	
Toluene	10.22	0.14	0.50	10.00	0	102	88	117	10.30	0.822	40	
1,1,2-Trichloroethane	9.980	0.20	0.50	10.00	0	99.8	83	121	10.16	1.75	40	
Tetrachloroethene	10.30	0.17	0.50	10.00	0	103	74	115	10.19	1.15	40	
Chlorobenzene	10.60	0.13	0.50	10.00	0	106	83	112	10.48	1.13	40	
Ethylbenzene	10.09	0.13	0.50	10.00	0	101	87	110	10.30	2.09	40	
m,p-Xylene	20.04	0.22	0.50	20.00	0	100	87	114	19.90	0.67	40	
o-Xylene	10.07	0.17	0.50	10.00	0	101	84	114	10.31	2.31	40	
Surrogate:	10.25		0.50	10.00	0	102	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.553		0.50	10.00	0	95.5	79	115	0			
Surrogate: Toluene-d8	10.18		0.50	10.00	0	102	80	114	0			
Surrogate:	10.25		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

m13.01.03.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

01/16/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 122712

Project: NOW Corp. Site, 12/2012

Lab ID: L2642-01

Collection Date: 12/27/12 13:25

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP					SW6010_W
Aluminum	ND	200 ug/L		1 01/03/2013 8:24	69969
Arsenic	ND	20 ug/L		1 01/03/2013 8:24	69969
Barium	76 J	200 ug/L		1 01/03/2013 8:24	69969
Chromium	ND	20 ug/L		1 01/03/2013 8:24	69969
Copper	ND	25 ug/L		1 01/03/2013 8:24	69969
Iron	ND	200 ug/L		1 01/03/2013 8:24	69969
Manganese	110	50 ug/L		1 01/03/2013 8:24	69969
Nickel	1.2 J	50 ug/L		1 01/03/2013 8:24	69969
Zinc	ND	50 ug/L		1 01/03/2013 8:24	69969
SW846 7470A -- Mercury by FIA					SW7470
Mercury	0.087 J	0.20 µg/L		1 01/04/2013 14:19	70002

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DF - Dilution Factor

RL - Reporting Limit

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

01/16/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 122712

Project: NOW Corp. Site, 12/2012

Lab ID: L2642-02

Collection Date: 12/27/12 13:37

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP					SW6010_W
Aluminum	ND	200 ug/L		1 01/03/2013 8:28	69969
Arsenic	ND	20 ug/L		1 01/03/2013 8:28	69969
Barium	77 J	200 ug/L		1 01/03/2013 8:28	69969
Chromium	ND	20 ug/L		1 01/03/2013 8:28	69969
Copper	4.7 J	25 ug/L		1 01/03/2013 8:28	69969
Iron	ND	200 ug/L		1 01/03/2013 8:28	69969
Manganese	180	50 ug/L		1 01/03/2013 8:28	69969
Nickel	2.2 J	50 ug/L		1 01/03/2013 8:28	69969
Zinc	6.2 J	50 ug/L		1 01/03/2013 8:28	69969
SW846 7470A -- Mercury by FIA					SW7470
Mercury	0.11 J	0.20 µg/L		1 01/04/2013 14:20	70002

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DF - Dilution Factor

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 01/16/2013

CLIENT: AECOM Technical Services, Inc.
Work Order: L2642
Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SW6010_W

SW846 6010C -- Metals by ICP

Sample ID: MB-69969		SampType: MBLK		TestCode: SW6010_W		Prep Date: 12/31/12 10:15		Run ID: OPTIMA3_130103A			
Client ID: MB-69969		Batch ID: 69969		Units: ug/L		Analysis Date: 01/03/13 8:14		SeqNo: 1854487			
Analyte	Result	MDL	RL	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-69969		SampType: LCS		TestCode: SW6010_W		Prep Date: 12/31/12 10:15		Run ID: OPTIMA3_130103A			
Client ID: LCS-69969		Batch ID: 69969		Units: ug/L		Analysis Date: 01/03/13 8:17		SeqNo: 1854488			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Aluminum	8748	66	200	9100	0	96.1	80	120	120	0	
Arsenic	442.4	4.3	20	455.0	0	97.2	80	120	120	0	
Barium	9046	1.1	200	9100	0	99.4	80	120	120	0	
Chromium	872.0	0.64	20	910.0	0	95.8	80	120	120	0	
Copper	1090	3.6	30	1130	0	96.4	80	120	120	0	
Iron	4321	31	200	4550	0	95.0	80	120	120	0	
Manganese	2248	10	50	2270	0	99.0	80	120	120	0	
Nickel	2220	0.85	50	2270	0	97.8	80	120	120	0	
Zinc	2207	4.9	50	2270	0	97.2	80	120	120	0	

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

ml301.13.A Run ID: OPTIMA3_130103A
B - Analyte detected in the associated Method Blank

CLIENT: AECOM Technical Services, Inc.
Work Order: L2642
Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SW6010_W
SW846 6010C -- Metals by ICP

Sample ID: LCSD-69969		SampType: LCSD	TestCode: SW6010_W		Prep Date: 12/31/12 10:15		Run ID: OPTIMA3_130103A					
Client ID: LCSD-69969		Batch ID: 69969	Units: ug/L		Analysis Date: 01/03/13 8:21		SeqNo: 1854489					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9141	66	200	9100	0	100	80	120	8748	4.39	20	
Arsenic	470.5	4.3	20	455.0	0	103	80	120	442.4	6.15	20	
Barium	9422	1.1	200	9100	0	104	80	120	9046	4.07	20	
Chromium	909.5	0.64	20	910.0	0	99.9	80	120	872.0	4.21	20	
Copper	1136	3.6	30	1130	0	101	80	120	1090	4.17	20	
Iron	4503	31	200	4550	0	99.0	80	120	4321	4.12	20	
Manganese	2342	10	50	2270	0	103	80	120	2248	4.06	20	
Nickel	2309	0.85	50	2270	0	102	80	120	2220	3.93	20	
Zinc	2297	4.9	50	2270	0	101	80	120	2207	3.99	20	
Sample ID: L2642-02CSD		SampType: SD	TestCode: SW6010_W		Prep Date: 12/31/12 10:15		Run ID: OPTIMA3_130103A					
Client ID: INF 122712		Batch ID: 69969	Units: ug/L		Analysis Date: 01/03/13 8:31		SeqNo: 1854492					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	330	1000	0	0	0	0	0	0	0	0	
Arsenic	ND	22	100	0	0	0	0	0	0	0	0	
Barium	81.44	5.5	1000	0	0	0	0	0	77.09	5.48	10	J
Chromium	ND	3.2	100	0	0	0	0	0	0	0	0	
Copper	ND	18	130	0	0	0	0	0	4.680	0	10	
Iron	ND	160	1000	0	0	0	0	0	0	0	10	
Manganese	187.1	50	250	0	0	0	0	0	177.5	5.26	10	J
Nickel	ND	4.3	250	0	0	0	0	0	2.187	0	10	
Zinc	ND	25	250	0	0	0	0	0	6.152	0	10	

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

m1301.13.A

CLIENT: AECOM Technical Services, Inc.
Work Order: L2642
Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SW7470

SW846 7470A -- Mercury by FIA

Sample ID:	MB-70002	SampType:	MBLK	TestCode:	SW7470	Units:	µg/L	Prep Date:	01/04/13 9:31	Run ID:	FIMS2_130104B			
Client ID:	MB-70002	Batch ID:	70002	Result	MDL	RL	SPK value	Analysis Date:	01/04/13 14:14	SeqNo:	1855163			
Analyte	Mercury	ND	0.028	0.20			SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual	
Sample ID:	LCS-70002	SampType:	LCS	TestCode:	SW7470	Units:	µg/L	Prep Date:	01/04/13 9:31	Run ID:	FIMS2_130104B			
Client ID:	LCS-70002	Batch ID:	70002	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Mercury	4.790	0.028	0.20	4.550	0	105	80	120	80	0	0			
Sample ID:	LCSD-70002	SampType:	LCSD	TestCode:	SW7470	Units:	µg/L	Prep Date:	01/04/13 9:31	Run ID:	FIMS2_130104B			
Client ID:	LCSD-70002	Batch ID:	70002	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Mercury	4.858	0.028	0.20	4.550	0	107	80	120	80	4.790	1.41	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

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

01/16/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 122712

Project: NOW Corp. Site, 12/2012

Lab ID: L2642-01

Collection Date: 12/27/12 13:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							
Total Dissolved Solids	270		10	mg/L		101/03/2013 19:50	69991
SM 2540D -- TOTAL SUSPENDED SOLIDS							
Total Suspended Solids	ND		10	mg/L		101/03/2013 19:50	69992
SW846 9012B -- Total Cyanide							
Cyanide	ND		10	ug/L		101/10/2013 16:55	70028

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DF - Dilution Factor

RL - Reporting Limit

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

01/16/2013

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 122712

Project: NOW Corp. Site, 12/2012

Lab ID: L2642-02

Collection Date: 12/27/12 13:37

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							
Total Dissolved Solids	270		10	mg/L		101/03/2013 23:00	69991
SM 2540D -- TOTAL SUSPENDED SOLIDS							
Total Suspended Solids	ND		10	mg/L		101/03/2013 23:00	69992
SW846 9012B -- Total Cyanide							
Cyanide	ND		10	ug/L		101/10/2013 16:56	70028

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DF - Dilution Factor

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 01/16/2013

CLIENT: AECOM Technical Services, Inc.
Work Order: L2642
Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SM2540_TDS

SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: MB-69991	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 01/03/13 13:30	Run ID: MANUAL_130103A								
Client ID: MB-69991	Batch ID: 69991	Units: mg/L	Analysis Date: 01/03/13 13:30	SeqNo: 1855508								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10	10									
Sample ID: LCS-69991	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 01/03/13 13:30	Run ID: MANUAL_130103A								
Client ID: LCS-69991	Batch ID: 69991	Units: mg/L	Analysis Date: 01/03/13 16:40	SeqNo: 1855509								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	151.0	10	10	159.0	0	95.0	80	120	120	0		

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

CLIENT: AECOM Technical Services, Inc.
Work Order: L2642
Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SM2540_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID:	MB-69992	SampType:	MBLK	TestCode:	SM2540_TSS	Prep Date:	01/03/13 13:30	Run ID:	MANUAL_130103B				
Client ID:	MB-69992	Batch ID:	69992	Units:	mg/L	Analysis Date:	01/03/13 13:30	SeqNo:	1855514				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids		ND	10	10									
Sample ID:	LCS-69992	SampType:	LCS	TestCode:	SM2540_TSS	Prep Date:	01/03/13 13:30	Run ID:	MANUAL_130103B				
Client ID:	LCS-69992	Batch ID:	69992	Units:	mg/L	Analysis Date:	01/03/13 16:40	SeqNo:	1855515				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	67.00	10	10	67.60	0	99.1	80	120	0				

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

CLIENT: AECOM Technical Services, Inc.
Work Order: L2642
Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

SW9012_W

SW846 9012B -- Total Cyanide

Sample ID: MB-70028		SampType: MBLK		TestCode: SW9012_W		Prep Date: 01/07/13 10:00		Run ID: LACHAT1_130110A	
Client ID: MB-70028		Batch ID: 70028		Units: ug/L		Analysis Date: 01/10/13 16:54		SeqNo: 1856980	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Cyanide	ND	7.5	20						
Sample ID: LCS-70028		SampType: LCS		TestCode: SW9012_W		Prep Date: 01/07/13 10:00		Run ID: LACHAT1_130110A	
Client ID: LCS-70028		Batch ID: 70028		Units: ug/L		Analysis Date: 01/10/13 16:55		SeqNo: 1856981	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Cyanide	89.60	7.5	20	100.0	0	89.6	80	120	0
Sample ID: L2642-02EDUP		SampType: DUP		TestCode: SW9012_W		Prep Date: 01/07/13 10:00		Run ID: LACHAT1_130110A	
Client ID: INF 122712		Batch ID: 70028		Units: ug/L		Analysis Date: 01/10/13 16:57		SeqNo: 1856984	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Cyanide	ND	2.5	10	0	0	0	0	0	0
Sample ID: L2642-02EMS		SampType: MS		TestCode: SW9012_W		Prep Date: 01/07/13 10:00		Run ID: LACHAT1_130110A	
Client ID: INF 122712		Batch ID: 70028		Units: ug/L		Analysis Date: 01/10/13 16:57		SeqNo: 1856985	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Cyanide	89.40	2.5	10	100.0	0	89.4	75	125	0

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

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

12/31/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 122712

Lab ID: L2642-01

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:25

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		12/31/2012 0:00	69962

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

12/31/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 122712

Lab ID: L2642-02

Project: NOW Corp. Site, 12/2012

Collection Date: 12/27/12 13:37

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		12/31/2012 0:00	69962

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 Tech

Date: 12/31/2012

CLIENT: AECOM Technical Services, Inc.

Work Order: L2642

Project: NOW Corp. Site, 12/2012

ANALYTICAL QC SUMMARY REPORT

E1664

EPA 1664A -- Oil & Grease, HEM

Sample ID:	MB-69962	SampType:	MBLK	TestCode:	E1664	Prep Date:	12/29/12 13:25	Run ID:	MANUAL_121231A		
Client ID:	MB-69962	Batch ID:	69962	Units:	mg/L	Analysis Date:	12/31/12 0:00	SeqNo:	1853354		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD Limit	Qual
Oil & Grease, Total Recoverable	ND	1.2	5.0								
Sample ID:	LCS-69962	SampType:	LCS	TestCode:	E1664	Prep Date:	12/29/12 13:25	Run ID:	MANUAL_121231A		
Client ID:	LCS-69962	Batch ID:	69962	Units:	mg/L	Analysis Date:	12/31/12 0:00	SeqNo:	1853352		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD Limit	Qual
Oil & Grease, Total Recoverable	39.20	1.2	5.0	40.00	0	98.0	78	114	0		
Sample ID:	LCSD-69962	SampType:	LCSD	TestCode:	E1664	Prep Date:	12/29/12 13:25	Run ID:	MANUAL_121231A		
Client ID:	LCSD-69962	Batch ID:	69962	Units:	mg/L	Analysis Date:	12/31/12 0:00	SeqNo:	1853353		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD Limit	Qual
Oil & Grease, Total Recoverable	36.20	1.2	5.0	40.00	0	90.5	78	114	39.20	7.96	18

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

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

WorkOrder: L2642

Client ID: EARTH_NY
Project: NOW Corp. Site
WO Name: NOW Corp. Site, 12/2012
Location: NOW_CORP,
Comments: N/A

Case:
SDG:
Fax Due:
Fax Report:
PO: 6027 6639 1

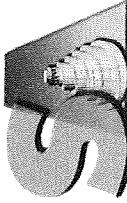
HC Due: 01/16/13
Report Level: LEVEL_2

Special Program:
EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Rec'd	Matrix	Test Code	Samp / Lab Test Comments			HF	HT	MS	SEL Storage
L2642-01A	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	SW8260_25_W	/			Y		VOA	
L2642-01B	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	E1664	/			B1			
L2642-01C	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	SW6010_W	/ See SEL list			Y	M6		
L2642-01C	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	SW7470	/ See SEL list			M6			
L2642-01D	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	SM2540_TDS	/			B1			
L2642-01D	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	SM2540_TSS	/			B1			
L2642-01E	EFF 122712	12/27/2012 13:25	12/28/2012	Aqueous	SW9012_W	/			Y	B1		
L2642-02A	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	SW8260_25_W	/			Y	VOA		
L2642-02B	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	E1664	/			B1			
L2642-02C	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	SW6010_W	/ See SEL list			Y	M6		
L2642-02C	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	SW7470	/ See SEL list			M6			
L2642-02D	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	SM2540_TDS	/			B1			
L2642-02D	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	SM2540_TSS	/			B1			
L2642-02E	INF 122712	12/27/2012 13:37	12/28/2012	Aqueous	SW9012_W	/			Y	B1		
L2642-03A	TW-1 122712	12/27/2012 13:43	12/28/2012	Aqueous	SW8260_25_W	/			Y	VOA		
L2642-04A	TW-2A 122712	12/27/2012 13:48	12/28/2012	Aqueous	SW8260_25_W	/			Y	VOA		
L2642-05A	TW-3 122712	12/27/2012 13:52	12/28/2012	Aqueous	SW8260_25_W	/			Y	VOA		
L2642-06A	TB 122712	12/27/2012 00:00	12/28/2012	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 TAT's subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: AECOM
90 Br. Fish American Blvd
Latham NY 12110

Project Mgr.: Stephen Choinier

P.O. No.: _____ RQN: _____

Invoice To: Same

Project No.: 602-76639

Site Name: Now Corp
Location: St. Catharines State: NY

Sampler(s): SGC

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=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:				QA/QC Reporting Level	Notes:		
											Cyanide	Q+G	TSS/TDS	Metals*	2	4	9	2
01	EFF 122712	12/27/12	13:25	GW	2	3	3	3	3	X	X	X	X					
02	INF 122712		13:37							X	X	X	X					
03	TW-1 122712		13:43															
04	TW-2 122712		13:48															
05	TW-3 122712		13:52															
06	TB 122712																	
L26472																		
V																		
L26472																		
Condition upon receipt: <input checked="" type="checkbox"/> Iced <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> °C 3																		
E-mail to _____																		
EDD Format _____																		
Received by: <u>Steve Hayes</u> Date: <u>12/27/12</u> Time: <u>16:20</u>																		
Relinquished by: <u>Jeff</u> Date: <u>12/28/12</u> Time: <u>11:40</u>																		

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

Received By:						Page 01 of 00		
Reviewed By:						Log-in Date 12/28/2012		
Work Order: L2642	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.		Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
Lab Sample ID	HNO ₃	H ₂ SO ₄	HCl	NaOH	H ₃ PO ₄			
L2642-01	<2		<2	>12		H		
L2642-02	<2		<2	>12		H		
L2642-03						H		
L2642-04						H		
L2642-05						H		
L2642-06						H		
1. Custody Seal(s)	Present / Absent							
2. Custody Seal Nos.	Intact / Broken							
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	N/A							
4. Airbill	AirBill / Sticker							
5. Airbill No.	Present / Absent							
6. Sample Tags	FedEx 8014 0638 7648							
Sample Tag Numbers	Present / Absent							
7. Sample Condition	Listed /							
8. Cooler Temperature Indicator Bottle	Not Listed on Chain-of-Custody							
9. Cooler Temperature	Intact / Broken / Leaking							
10. Does information on TR/COCs and sample tags agree?	Present / Absent							
11. Date Received at Laboratory	3 °C							
12. Time Received	Yes / No							
Sample Transfer								
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO							
Area #	Area #							
By	By							
On	On							
IR Temp Gun ID:MT-1	VOA Matrix Key:							
CoolantCondition: ICE	US = Unpreserved Soil A= Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO ₄ F = Freeze							
Preservative Name/Lot No:	See Sample Condition Notification/Corrective Action Form Yes / No							
Rad OK Yes / No								

Last Page of Data Report