



**Operation, Maintenance and Monitoring Report
February 2011**

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

**Work Assignment No.
D004445-4.2**

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

April 2011



April 13, 2011

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: "February" 2011**

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 30-day period (**January 26 – February 25, 2011**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 598,900 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 19,960 gallons per day (gpd), slightly higher than the 19,560 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 82,478,200 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 February 25, 2011. **Effluent limitations were not exceeded for any analyte.** A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data recorded on the sampling date.

AECOM made one site visit during the period to conduct the required system inspection, perform scheduled maintenance, and to collect water samples. The January 26 service visit was described in the previous report. Details for the current period follow:

January 26 – Monthly O&M service visit. Recorded instrument/meter readings. Collected influent and effluent samples. Discharge rates of the three extraction wells were adjusted.

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: February 25, 2011
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	
			TW-1	TW-2A	TW-3	Monitor	(units) gallons standard units
Quantity treated, per day		19,963				Monitor	
pH	6.8	7.0				6.5 to 8.5	
Oil and Grease	<5.0	<5.0	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	266	258	NA	NA	NA	1000	mg/L
TSS	<5	<5	NA	NA	NA	50	mg/L
Aluminum, Total	<200	<200	NA	NA	NA	2000	ug/L
Arsenic, Total	<20	<20	NA	NA	NA	50	ug/L
Barium, Total	65 J	66 J	NA	NA	NA	2000	ug/L
Chromium	<20	0.71 J	NA	NA	NA	100	ug/L
Copper	<25	<25	NA	NA	NA	24	ug/L
Iron	<200	<200	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	92	43 J	NA	NA	NA	600	ug/L
Nickel	<50	1 J	NA	NA	NA	200	ug/L
Zinc	11 J	11 J	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	260	<0.50	10	420	5.2	5	ug/L
1,1,2-Trichloroethane	<8	<0.50	<2.5	<13	<0.50	1.2	ug/L
1,1-Dichloroethane	110	<0.50	72	160	15	5	ug/L
1,1-Dichloroethene	15	<0.50	16	26	2.3	0.5	ug/L
1,2-Dichloroethane	<8	<0.50	<2.5	<13	<0.50	1.6	ug/L
Benzene	<8	<0.50	<2.5	<13	<0.50	0.8	ug/L
Chlorobenzene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
Chloroethane	<8	<0.50	<2.5	<13	<0.50	5	ug/L
cis -1,2-Dichloroethene	12	<0.50	12	18	<0.50	5	ug/L
Ethylbenzene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
Methyl tert-butyl ether	<8	<0.50	<2.5	<13	<0.50	5	ug/L
o-Xylene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
m,p-Xylene	<8	<0.50	<2.5	<13	<0.50	10	ug/L
Tetrachloroethene	<8	<0.50	<2.5	<13	<0.50	1.4	ug/L
Toluene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
trans -1,2-Dichloroethene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
Trichloroethene	270	<0.50	110	420	14	5	ug/L
Vinyl Chloride	<8	<0.50	<2.5	<13	<0.50	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 February 2011 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:	2/25/11	Units
<i>TW-1</i>		
Pumping Rate	3	GPM
Water Level Above Transducer	44.58	feet
Flow Meter Reading	5,906,200	gallons
Pump Pressure	85	psi
<i>TW-2A</i>		
Pumping Rate	~14	GPM
Water Level Above Transducer	52.07	feet
Flow Meter Reading	19,966,600	gallons
Pump Pressure	0	psi
<i>TW-3</i>		
Pumping Rate	4	GPM
Water Level Above Transducer	26.09	feet
Flow Meter Reading	8,644,200	gallons
Pump Pressure	60	psi
<i>Air Stripper</i>		
Stripper Blower Pressure	21	inches H ₂ O
Air Temperature in Stripper	47	°F
Pressure Gauge - Left Leg	2	inches H ₂ O
Pressure Gauge - Right Leg	3.5	inches H ₂ O
<i>Effluent Flow</i>		
Effluent Flow this period (calculated)	598,900	gallons
Total Effluent Flow (calculated)	82,478,200	gallons

Report Date:
17-Mar-11 09:26



- Final Report
- Re-Issued Report
- Revised Report

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

Laboratory Report

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

Work Order: K0311
Project : NOW Corp. Site
Project #:

Attn: Stephen Choiniere

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
K0311-01	EFF-022511	Aqueous	25-Feb-11 11:35	28-Feb-11 08:45
K0311-02	INF-022511	Aqueous	25-Feb-11 11:45	28-Feb-11 08:45
K0311-03	TW-1	Aqueous	25-Feb-11 11:50	28-Feb-11 08:45
K0311-04	TW-2A	Aqueous	25-Feb-11 11:55	28-Feb-11 08:45
K0311-05	TW-3	Aqueous	25-Feb-11 12:00	28-Feb-11 08:45
K0311-06	TRIP BLANK	Aqueous	25-Feb-11 00:00	28-Feb-11 08:45

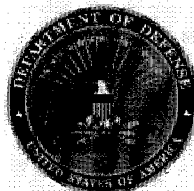
I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Mitkem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

All applicable NELAC or USEPA CLP requirements have been met.

Mitkem Laboratories is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page our web site at www.mitkem.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
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
Texas	T104704422-08-TX
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-05-030



Authorized by:

Yihai Ding
Laboratory Director

Technical Reviewer's Initials:

REPORT NARRATIVE

Mitekem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0311

SW846 8260C

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: SW5030B_25_PR(PT_AQ)

V. INSTRUMENTATION

The following instrumentation was used to perform
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 with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCSD-57707 in batch 57707, Percent Recovery is outside QC Limits, recovery is above criteria for Tetrachloroethene at 121% with criteria of (74-115)

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-022511 (K0311-02A) : Dilution Factor: 16

TW-1 (K0311-03A) : Dilution Factor: 5
TW-2A (K0311-04A) : Dilution Factor: 25

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 Mitkem, 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: K Chui

Date: 3/7/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0311

EPA 1664A

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: E1664_PR(SEPF)

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 recovery for lab control samples was within the QC limits.

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

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

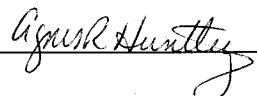
D. Duplicate sample:

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

E. Samples:

No other unusual occurrences were noted during sample analysis.

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Signed: 

Date: 3/17/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0311

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: ICP_W_PR(3005A)

Aqueous Samples were prepared following procedures in laboratory test code: SW7470A_PR(7470A)

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1

Instrument Type: CVAA

Description: FIMS

Manufacturer: Perkin-Elmer

Model: FIMS

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.

Aluminum was detected in method blank MB-57869 at a concentration above the MDL but below the reporting limit.

C. Spikes:

1. Laboratory Control Spikes (LCS):

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

2. Matrix spike (MS):

No client-requested MS analysis was included in this SDG.

D. Post Digestion/Distillation Spike (PDS):

No client-requested PDS analysis was included in this SDG.

E. Duplicate sample:

No client-requested dilution analysis was included in this SDG

F. Serial Dilution (SD):

No client-requested serial dilution analysis was included in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

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Signed: *Liguis R. Huntley*

Date: 3/17/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0311

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.

Total Dissolved Solids and Total Suspended Solids analyses were performed by Mitkem's parent company Spectrum Analytical, Inc. of Agawam, MA. Spectrum is fully NYSDOH approved for these analyses

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: CN_W_PR(Midi-distillation)

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: LACHAT1

Instrument Type: WC

Description: Flow Injection Analyzer

Manufacturer: Zellweger Analytics

Model: Quik-Chem 8000

Instrument Code: SUB

Instrument Type: Auto

Description:

Manufacturer:

Model:

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 recovery for lab control samples for cyanide, total dissolved solids and total suspended solids 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:

Duplicate analysis was performed on sample EFF-022511 for total dissolved solids. Percent RPD was within the QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

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Signed: August Huntley

Date: 3/17/11

Mitkem Laboratories

Date: 07-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-022511

Project: NOW Corp. Site

Lab ID: K0311-01

Collection Date: 02/25/11 11:35

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	µg/L		103/02/2011 21:35	57707
Chloroethane	ND		0.50	µg/L		103/02/2011 21:35	57707
1,1-Dichloroethene	ND		0.50	µg/L		103/02/2011 21:35	57707
trans-1,2-Dichloroethene	ND		0.50	µg/L		103/02/2011 21:35	57707
Methyl tert-butyl ether	ND		0.50	µg/L		103/02/2011 21:35	57707
1,1-Dichloroethane	ND		0.50	µg/L		103/02/2011 21:35	57707
cis-1,2-Dichloroethene	ND		0.50	µg/L		103/02/2011 21:35	57707
1,1,1-Trichloroethane	ND		0.50	µg/L		103/02/2011 21:35	57707
1,2-Dichloroethane	ND		0.50	µg/L		103/02/2011 21:35	57707
Benzene	ND		0.50	µg/L		103/02/2011 21:35	57707
Trichloroethene	ND		0.50	µg/L		103/02/2011 21:35	57707
Toluene	ND		0.50	µg/L		103/02/2011 21:35	57707
1,1,2-Trichloroethane	ND		0.50	µg/L		103/02/2011 21:35	57707
Tetrachloroethene	ND		0.50	µg/L		103/02/2011 21:35	57707
Chlorobenzene	ND		0.50	µg/L		103/02/2011 21:35	57707
Ethylbenzene	ND		0.50	µg/L		103/02/2011 21:35	57707
m,p-Xylene	ND		0.50	µg/L		103/02/2011 21:35	57707
o-Xylene	ND		0.50	µg/L		103/02/2011 21:35	57707
Surrogate: Dibromofluoromethane	115		88-124	%REC		103/02/2011 21:35	57707
Surrogate: 1,2-Dichloroethane-d4	105		79-115	%REC		103/02/2011 21:35	57707
Surrogate: Toluene-d8	103		80-114	%REC		103/02/2011 21:35	57707
Surrogate: Bromofluorobenzene	112		60-123	%REC		103/02/2011 21:35	57707

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

Mitkem Laboratories

Date: 07-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-022511

Lab ID: K0311-02

Project: NOW Corp. Site

Collection Date: 02/25/11 11:45

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		8.0	µg/L		16 03/02/2011 22:03	57707
Chloroethane	ND		8.0	µg/L		16 03/02/2011 22:03	57707
1,1-Dichloroethene	15		8.0	µg/L		16 03/02/2011 22:03	57707
trans-1,2-Dichloroethene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Methyl tert-butyl ether	ND		8.0	µg/L		16 03/02/2011 22:03	57707
1,1-Dichloroethane	110		8.0	µg/L		16 03/02/2011 22:03	57707
cis-1,2-Dichloroethene	12		8.0	µg/L		16 03/02/2011 22:03	57707
1,1,1-Trichloroethane	260		8.0	µg/L		16 03/02/2011 22:03	57707
1,2-Dichloroethane	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Benzene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Trichloroethene	270		8.0	µg/L		16 03/02/2011 22:03	57707
Toluene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
1,1,2-Trichloroethane	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Tetrachloroethene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Chlorobenzene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Ethylbenzene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
m,p-Xylene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
o-Xylene	ND		8.0	µg/L		16 03/02/2011 22:03	57707
Surrogate: Dibromofluoromethane	119		88-124	%REC		16 03/02/2011 22:03	57707
Surrogate: 1,2-Dichloroethane-d4	96.5		79-115	%REC		16 03/02/2011 22:03	57707
Surrogate: Toluene-d8	102		80-114	%REC		16 03/02/2011 22:03	57707
Surrogate: Bromofluorobenzene	114		60-123	%REC		16 03/02/2011 22:03	57707

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

Mitkem Laboratories

Date: 07-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1

Lab ID: K0311-03

Project: NOW Corp. Site

Collection Date: 02/25/11 11:50

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		2.5	µg/L		5 03/02/2011 22:32	57707
Chloroethane	ND		2.5	µg/L		5 03/02/2011 22:32	57707
1,1-Dichloroethene	16		2.5	µg/L		5 03/02/2011 22:32	57707
trans-1,2-Dichloroethene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Methyl tert-butyl ether	ND		2.5	µg/L		5 03/02/2011 22:32	57707
1,1-Dichloroethane	72		2.5	µg/L		5 03/02/2011 22:32	57707
cis-1,2-Dichloroethene	12		2.5	µg/L		5 03/02/2011 22:32	57707
1,1,1-Trichloroethane	10		2.5	µg/L		5 03/02/2011 22:32	57707
1,2-Dichloroethane	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Benzene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Trichloroethene	110		2.5	µg/L		5 03/02/2011 22:32	57707
Toluene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
1,1,2-Trichloroethane	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Tetrachloroethene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Chlorobenzene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Ethylbenzene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
m,p-Xylene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
o-Xylene	ND		2.5	µg/L		5 03/02/2011 22:32	57707
Surrogate: Dibromofluoromethane	113		88-124	%REC		5 03/02/2011 22:32	57707
Surrogate: 1,2-Dichloroethane-d4	101		79-115	%REC		5 03/02/2011 22:32	57707
Surrogate: Toluene-d8	103		80-114	%REC		5 03/02/2011 22:32	57707
Surrogate: Bromofluorobenzene	109		60-123	%REC		5 03/02/2011 22:32	57707

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

Mitkem Laboratories

Date: 07-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A

Lab ID: K0311-04

Project: NOW Corp. Site

Collection Date: 02/25/11 11:55

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		13	µg/L		25 03/02/2011 23:02	57707
Chloroethane	ND		13	µg/L		25 03/02/2011 23:02	57707
1,1-Dichloroethene	26		13	µg/L		25 03/02/2011 23:02	57707
trans-1,2-Dichloroethene	ND		13	µg/L		25 03/02/2011 23:02	57707
Methyl tert-butyl ether	ND		13	µg/L		25 03/02/2011 23:02	57707
1,1-Dichloroethane	160		13	µg/L		25 03/02/2011 23:02	57707
cis-1,2-Dichloroethene	18		13	µg/L		25 03/02/2011 23:02	57707
1,1,1-Trichloroethane	420		13	µg/L		25 03/02/2011 23:02	57707
1,2-Dichloroethane	ND		13	µg/L		25 03/02/2011 23:02	57707
Benzene	ND		13	µg/L		25 03/02/2011 23:02	57707
Trichloroethene	420		13	µg/L		25 03/02/2011 23:02	57707
Toluene	ND		13	µg/L		25 03/02/2011 23:02	57707
1,1,2-Trichloroethane	ND		13	µg/L		25 03/02/2011 23:02	57707
Tetrachloroethene	ND		13	µg/L		25 03/02/2011 23:02	57707
Chlorobenzene	ND		13	µg/L		25 03/02/2011 23:02	57707
Ethylbenzene	ND		13	µg/L		25 03/02/2011 23:02	57707
m,p-Xylene	ND		13	µg/L		25 03/02/2011 23:02	57707
o-Xylene	ND		13	µg/L		25 03/02/2011 23:02	57707
Surrogate: Dibromofluoromethane	111		88-124	%REC		25 03/02/2011 23:02	57707
Surrogate: 1,2-Dichloroethane-d4	102		79-115	%REC		25 03/02/2011 23:02	57707
Surrogate: Toluene-d8	104		80-114	%REC		25 03/02/2011 23:02	57707
Surrogate: Bromofluorobenzene	114		60-123	%REC		25 03/02/2011 23:02	57707

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

Mitkem Laboratories

Date: 07-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3

Lab ID: K0311-05

Project: NOW Corp. Site

Collection Date: 02/25/11 12:00

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 µg/L	103/02/2011 23:31	57707
Chloroethane	ND	0.50 µg/L	103/02/2011 23:31	57707
1,1-Dichloroethene	2.3	0.50 µg/L	103/02/2011 23:31	57707
trans-1,2-Dichloroethene	ND	0.50 µg/L	103/02/2011 23:31	57707
Methyl tert-butyl ether	ND	0.50 µg/L	103/02/2011 23:31	57707
1,1-Dichloroethane	15	0.50 µg/L	103/02/2011 23:31	57707
cis-1,2-Dichloroethene	ND	0.50 µg/L	103/02/2011 23:31	57707
1,1,1-Trichloroethane	5.2	0.50 µg/L	103/02/2011 23:31	57707
1,2-Dichloroethane	ND	0.50 µg/L	103/02/2011 23:31	57707
Benzene	ND	0.50 µg/L	103/02/2011 23:31	57707
Trichloroethene	14	0.50 µg/L	103/02/2011 23:31	57707
Toluene	ND	0.50 µg/L	103/02/2011 23:31	57707
1,1,2-Trichloroethane	ND	0.50 µg/L	103/02/2011 23:31	57707
Tetrachloroethene	ND	0.50 µg/L	103/02/2011 23:31	57707
Chlorobenzene	ND	0.50 µg/L	103/02/2011 23:31	57707
Ethylbenzene	ND	0.50 µg/L	103/02/2011 23:31	57707
m,p-Xylene	ND	0.50 µg/L	103/02/2011 23:31	57707
o-Xylene	ND	0.50 µg/L	103/02/2011 23:31	57707
Surrogate: Dibromofluoromethane	116	88-124 %REC	103/02/2011 23:31	57707
Surrogate: 1,2-Dichloroethane-d4	112	79-115 %REC	103/02/2011 23:31	57707
Surrogate: Toluene-d8	102	80-114 %REC	103/02/2011 23:31	57707
Surrogate: Bromofluorobenzene	112	60-123 %REC	103/02/2011 23:31	57707

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

Mitkem Laboratories

Date: 07-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TRIP BLANK

Lab ID: K0311-06

Project: NOW Corp. Site

Collection Date: 02/25/11 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	µg/L		103/03/2011 0:01	57707
Chloroethane	ND		0.50	µg/L		103/03/2011 0:01	57707
1,1-Dichloroethene	ND		0.50	µg/L		103/03/2011 0:01	57707
trans-1,2-Dichloroethene	ND		0.50	µg/L		103/03/2011 0:01	57707
Methyl tert-butyl ether	ND		0.50	µg/L		103/03/2011 0:01	57707
1,1-Dichloroethane	ND		0.50	µg/L		103/03/2011 0:01	57707
cis-1,2-Dichloroethene	ND		0.50	µg/L		103/03/2011 0:01	57707
1,1,1-Trichloroethane	ND		0.50	µg/L		103/03/2011 0:01	57707
1,2-Dichloroethane	ND		0.50	µg/L		103/03/2011 0:01	57707
Benzene	ND		0.50	µg/L		103/03/2011 0:01	57707
Trichloroethene	ND		0.50	µg/L		103/03/2011 0:01	57707
Toluene	ND		0.50	µg/L		103/03/2011 0:01	57707
1,1,2-Trichloroethane	ND		0.50	µg/L		103/03/2011 0:01	57707
Tetrachloroethene	ND		0.50	µg/L		103/03/2011 0:01	57707
Chlorobenzene	ND		0.50	µg/L		103/03/2011 0:01	57707
Ethylbenzene	ND		0.50	µg/L		103/03/2011 0:01	57707
m,p-Xylene	ND		0.50	µg/L		103/03/2011 0:01	57707
o-Xylene	ND		0.50	µg/L		103/03/2011 0:01	57707
Surrogate: Dibromofluoromethane	118		88-124	%REC		103/03/2011 0:01	57707
Surrogate: 1,2-Dichloroethane-d4	114		79-115	%REC		103/03/2011 0:01	57707
Surrogate: Toluene-d8	102		80-114	%REC		103/03/2011 0:01	57707
Surrogate: Bromofluorobenzene	112		60-123	%REC		103/03/2011 0:01	57707

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: K0311

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: MB-57707	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 03/02/11 7:39	Run ID: V5_110302A								
Client ID: MB-57707	Batch ID: 57707	Units: µg/L	Analysis Date: 03/02/11 21:05	SeqNo: 1486999								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.15	0.50									
Chloroethane	ND	0.24	0.50									
1,1-Dichloroethene	ND	0.19	0.50									
trans-1,2-Dichloroethene	ND	0.14	0.50									
Methyl tert-butyl ether	ND	0.13	0.50									
1,1-Dichloroethane	ND	0.18	0.50									
cis-1,2-Dichloroethene	ND	0.19	0.50									
1,1,1-Trichloroethane	ND	0.11	0.50									
1,2-Dichloroethane	ND	0.16	0.50									
Benzene	ND	0.12	0.50									
Trichloroethene	ND	0.13	0.50									
Toluene	ND	0.14	0.50									
1,1,2-Trichloroethane	ND	0.20	0.50									
Tetrachloroethene	ND	0.17	0.50									
Chlorobenzene	ND	0.13	0.50									
Ethylbenzene	ND	0.13	0.50									
m,p-Xylene	ND	0.22	0.50									
o-Xylene	ND	0.17	0.50									
Surrogate:	11.31			10.00	0	113	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-	10.64			10.00	0	106	79	115	0			
Dichloroethane-d4												
Surrogate: Toluene-d8	10.46			10.00	0	105	80	114	0			
Surrogate:	11.47			10.00	0	115	60	123	0			
Bromofluorobenzene												

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 ml1.03.07.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: K0311

SW8260_25_W

Project: NOW Corp. Site

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

Run ID: V5_110302A

Prep Date: 03/02/11 7:39

TestCode: SW8260_25_W

SeqNo: 1486997

Analysis Date: 03/02/11 20:07

Units: µg/L

SampType: LCS

Sample ID: LCS-57707

Batch ID: 57707

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.827	0.15	0.50	10.00	0	98.3	77	120	0			
Chloroethane	10.90	0.24	0.50	10.00	0	109	75	135	0			
1,1-Dichloroethene	10.61	0.19	0.50	10.00	0	106	81	125	0			
trans-1,2-Dichloroethene	10.13	0.14	0.50	10.00	0	101	60	137	0			
Methyl tert-butyl ether	10.15	0.13	0.50	10.00	0	102	61	134	0			
1,1-Dichloroethane	11.06	0.18	0.50	10.00	0	111	82	120	0			
cis-1,2-Dichloroethene	10.80	0.19	0.50	10.00	0	108	84	116	0			
1,1,1-Trichloroethane	10.66	0.11	0.50	10.00	0	107	80	124	0			
1,2-Dichloroethane	10.31	0.16	0.50	10.00	0	103	86	117	0			
Benzene	10.32	0.12	0.50	10.00	0	103	81	121	0			
Trichloroethene	10.38	0.13	0.50	10.00	0	104	74	123	0			
Toluene	10.69	0.14	0.50	10.00	0	107	88	117	0			
1,1,2-Trichloroethane	10.58	0.20	0.50	10.00	0	106	83	121	0			
Tetrachloroethene	9.901	0.17	0.50	10.00	0	99.0	74	115	0			
Chlorobenzene	9.344	0.13	0.50	10.00	0	93.4	83	112	0			
Ethylbenzene	9.788	0.13	0.50	10.00	0	97.9	87	110	0			
m,p-Xylene	19.08	0.22	0.50	20.00	0	95.4	87	114	0			
o-Xylene	9.882	0.17	0.50	10.00	0	98.8	84	114	0			
Surrogate:	11.00		0.50	10.00	0	110	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.736		0.50	10.00	0	97.4	79	115	0			
Surrogate: Toluene-d8	10.69		0.50	10.00	0	107	80	114	0			
Surrogate:	11.24		0.50	10.00	0	112	60	123	0			
Bromofluorobenzene												

B - Analyte detected in the associated Method Blank

MDL - Method Detection Limit

S - Recovery outside accepted recovery limits

ND - Not Detected at the Reporting Limit

Qualifiers:

R - RPD outside accepted recovery limits

RL - Reporting Limit

R - RPD outside accepted recovery limits

J - Analyte detected below quantification limits

m1103.07.A

CLIENT: AECOM Technical Services, Inc.

Work Order: K0311

Project: NOW Corp. Site

SW8260_25_W

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

ANALYTICAL QC SUMMARY REPORT

Run ID: V5_110302A

Prep Date: 03/02/11 7:39

SeqNo: 1486998

Analysis Date: 03/02/11 20:36

TestCode: SW8260_25_W

Units: µg/L

SampType: LCSD

Batch ID: 57707

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	10.11	0.15	0.50	10.00	0	101	77	120	9.827	2.87	40	
Chloroethane	10.87	0.24	0.50	10.00	0	109	75	135	10.90	0.26	40	
1,1-Dichloroethene	11.30	0.19	0.50	10.00	0	113	81	125	10.61	6.31	40	
trans-1,2-Dichloroethene	11.02	0.14	0.50	10.00	0	110	60	137	10.13	8.45	40	
Methyl tert-butyl ether	10.72	0.13	0.50	10.00	0	107	61	134	10.15	5.46	40	
1,1-Dichloroethane	11.08	0.18	0.50	10.00	0	111	82	120	11.06	0.151	40	
cis-1,2-Dichloroethene	11.17	0.19	0.50	10.00	0	112	84	116	10.80	3.35	40	
1,1,1-Trichloroethane	10.81	0.11	0.50	10.00	0	108	80	124	10.66	1.46	40	
1,2-Dichloroethane	10.68	0.16	0.50	10.00	0	107	86	117	10.31	3.56	40	
Benzene	11.08	0.12	0.50	10.00	0	111	81	121	10.32	7.18	40	
Trichloroethene	10.99	0.13	0.50	10.00	0	110	74	123	10.38	5.69	40	
Toluene	10.93	0.14	0.50	10.00	0	109	88	117	10.69	2.2	40	
1,1,2-Trichloroethane	10.65	0.20	0.50	10.00	0	106	83	121	10.58	0.691	40	
Tetrachloroethene	12.10	0.17	0.50	10.00	0	121	74	115	9.901	20	40	S
Chlorobenzene	9.479	0.13	0.50	10.00	0	94.8	83	112	9.344	1.44	40	
Ethylbenzene	9.382	0.13	0.50	10.00	0	93.8	87	110	9.788	4.23	40	
m,p-Xylene	19.34	0.22	0.50	20.00	0	96.7	87	114	19.08	1.35	40	
o-Xylene	9.699	0.17	0.50	10.00	0	97.0	84	114	9.882	1.87	40	
Surrogate:	10.88		0.50	10.00	0	109	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	10.92		0.50	10.00	0	109	79	115	0			
Surrogate: Toluene-d8	10.56		0.50	10.00	0	106	80	114	0			
Surrogate: Bromofluorobenzene	11.45		0.50	10.00	0	114	60	123	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank

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

Mitkem Laboratories

Date: 14-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-022511

Project: NOW Corp. Site

Lab ID: K0311-01

Collection Date: 02/25/11 11:35

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 03/14/2011 0:00	57883

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

Mitkem Laboratories

Date: 14-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-022511

Lab ID: K0311-02

Project: NOW Corp. Site

Collection Date: 02/25/11 11:45

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 03/14/2011 0:00	57883

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: K0311
 Project: NOW Corp. Site

E1664
 EPA 1664A -- Oil & Grease, HEM

Sample ID: MB-57883	SampType: MBLK	TestCode: E1664	Prep Date: 03/10/11 8:30	Run ID: MANUAL_110314A	
Client ID: MB-57883	Batch ID: 57883	Units: mg/L	Analysis Date: 03/14/11 0:00	SeqNo: 1491831	
Analyte	Result	MDL	SPK value	SPK Ref Val	%RPD RPDLimit
Oil & Grease, Total Recoverable	ND	1.2			Qual
					5.0

Sample ID: LCS-57883	SampType: LCS	TestCode: E1664	Prep Date: 03/10/11 8:30	Run ID: MANUAL_110314A	
Client ID: LCS-57883	Batch ID: 57883	Units: mg/L	Analysis Date: 03/14/11 0:00	SeqNo: 1491830	
Analyte	Result	MDL	SPK value	SPK Ref Val	%RPD RPDLimit
Oil & Grease, Total Recoverable	37.80	1.2	40.00	0	0
					114
					78
					94.5

0029

Mitkem Laboratories

Date: 11-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-022511

Project: NOW Corp. Site

Lab ID: K0311-01

Collection Date: 02/25/11 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Aluminum	ND		200	µg/L		1 03/09/2011 10:35	57869
Arsenic	ND		20	µg/L		1 03/09/2011 10:35	57869
Barium	66	J	200	µg/L		1 03/09/2011 10:35	57869
Chromium	0.71	J	20	µg/L		1 03/09/2011 10:35	57869
Copper	ND		25	µg/L		1 03/09/2011 10:35	57869
Iron	ND		200	µg/L		1 03/09/2011 10:35	57869
Manganese	43	J	50	µg/L		1 03/09/2011 10:35	57869
Nickel	1.0	J	50	µg/L		1 03/09/2011 10:35	57869
Zinc	11	J	50	µg/L		1 03/09/2011 10:35	57869
SW846 7470A -- Mercury by FIA							SW7470
Mercury	ND		0.20	µg/L		1 03/09/2011 15:59	57902

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

Mitkem Laboratories

Date: 11-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-022511

Project: NOW Corp. Site

Lab ID: K0311-02

Collection Date: 02/25/11 11:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Aluminum	ND		200	µg/L		1 03/09/2011 10:39	57869
Arsenic	ND		20	µg/L		1 03/09/2011 10:39	57869
Barium	65	J	200	µg/L		1 03/09/2011 10:39	57869
Chromium	ND		20	µg/L		1 03/09/2011 10:39	57869
Copper	ND		25	µg/L		1 03/09/2011 10:39	57869
Iron	ND		200	µg/L		1 03/09/2011 10:39	57869
Manganese	92		50	µg/L		1 03/09/2011 10:39	57869
Nickel	ND		50	µg/L		1 03/09/2011 10:39	57869
Zinc	11	J	50	µg/L		1 03/09/2011 10:39	57869
SW846 7470A -- Mercury by FIA							SW7470
Mercury	ND		0.20	µg/L		1 03/09/2011 16:01	57902

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: K0311
 Project: NOW Corp. Site

SW6010_W
 SW846 6010C -- Metals by ICP

Sample ID: MB-57869 SampType: MBLK TestCode: SW6010_W Prep Date: 03/08/11 11:15 Run ID: OPTIMA3_110309C
 Client ID: MB-57869 Batch ID: 57869 Units: µg/L Analysis Date: 03/09/11 10:17 SeqNo: 1489946

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	67.42	66	200									J
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-57869 SampType: LCS TestCode: SW6010_W Prep Date: 03/08/11 11:15 Run ID: OPTIMA3_110309C
 Client ID: LCS-57869 Batch ID: 57869 Units: µg/L Analysis Date: 03/09/11 10:20 SeqNo: 1489947

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8958	66	200	9100	0	98.4	80	120	0			B
Arsenic	468.6	4.3	20	455.0	0	103	80	120	0			
Barium	9080	1.1	200	9100	0	99.8	80	120	0			
Chromium	895.7	0.64	20	910.0	0	98.4	80	120	0			
Copper	1109	3.6	30	1130	0	98.1	80	120	0			
Iron	4667	31	200	4550	0	103	80	120	0			
Manganese	2230	10	50	2270	0	98.2	80	120	0			
Nickel	2283	0.85	50	2270	0	101	80	120	0			
Zinc	2192	4.9	50	2270	0	96.6	80	120	0			

0026

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m11.03.10.Z J - Analyte detected below quantification limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: K0311

SW6010_W

Project: NOW Corp. Site

SW846 6010C -- Metals by ICP

Sample ID: LCSD-57869 SampType: LCSD TestCode: SW6010_W Prep Date: 03/08/11 11:15 Run ID: OPTIMA3_110309C

Client ID: LCSD-57869 Batch ID: 57869 Units: µg/L Analysis Date: 03/09/11 10:23 SeqNo: 1489948

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9004	66	200	9100	0	98.9	80	120	8958	0.508	20	B
Arsenic	472.9	4.3	20	455.0	0	104	80	120	468.6	0.925	20	
Barium	9101	1.1	200	9100	0	100	80	120	9080	0.227	20	
Chromium	909.4	0.64	20	910.0	0	99.9	80	120	895.7	1.51	20	
Copper	1116	3.6	30	1130	0	98.8	80	120	1109	0.699	20	
Iron	4714	31	200	4550	0	104	80	120	4667	1.01	20	
Manganese	2239	10	50	2270	0	98.6	80	120	2230	0.394	20	
Nickel	2314	0.85	50	2270	0	102	80	120	2283	1.32	20	
Zinc	2233	4.9	50	2270	0	98.4	80	120	2192	1.82	20	

0027

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m11.03.10.Z 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: K0311

Project: NOW Corp. Site

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: MB-57902	SampType: MBLK	TestCode: SW7470	Prep Date: 03/09/11 13:00	Run ID: FIMS1_110309B
Client ID: MB-57902	Batch ID: 57902	Units: µg/L	Analysis Date: 03/09/11 15:55	SeqNo: 1490287
Analyte	Result	MDL	SPK Ref Val	%REC
Mercury	ND	0.028	0	104
		RL	SPK value	LowLimit
		0.20	4.550	HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: LCS-57902	SampType: LCS	TestCode: SW7470	Prep Date: 03/09/11 13:00	Run ID: FIMS1_110309B
Client ID: LCS-57902	Batch ID: 57902	Units: µg/L	Analysis Date: 03/09/11 15:57	SeqNo: 1490288
Analyte	Result	MDL	SPK Ref Val	%REC
Mercury	4.710	0.028	0	104
		RL	SPK value	LowLimit
		0.20	4.550	HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

0028

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

Mitkem Laboratories

Date: 16-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-022511

Project: NOW Corp. Site

Lab ID: K0311-01

Collection Date: 02/25/11 11:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS				SM2540_TDS
Total Dissolved Solids	258	5.00 mg/L	1 03/02/2011 16:06	SUBBED
SM 2540D -- TOTAL SUSPENDED SOLIDS				SM2540_TSS
Total Suspended Solids	ND U	5.00 mg/L	1 03/03/2011 15:42	SUBBED
SW846 9012B -- Total Cyanide				SW9012_W
Cyanide	ND	10 ug/L	1 03/03/2011 14:45	57798

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

Mitkem Laboratories

Date: 16-Mar-11

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-022511

Project: NOW Corp. Site

Lab ID: K0311-02

Collection Date: 02/25/11 11:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS				SM2540_TDS
Total Dissolved Solids	266	5.00 mg/L	1 03/02/2011 16:06	SUBBED
SM 2540D -- TOTAL SUSPENDED SOLIDS				SM2540_TSS
Total Suspended Solids	ND U	5.00 mg/L	1 03/03/2011 15:42	SUBBED
SW846 9012B -- Total Cyanide				SW9012_W
Cyanide	ND	10 ug/L	1 03/03/2011 14:47	57798

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: K0311

Project: NOW Corp. Site

SW9012_W

SW846 9012B -- Total Cyanide

Sample ID: MB-57798	SampType: MBLK	TestCode: SW9012_W	Prep Date: 03/03/11 10:45	Run ID: LACHAT1_110303B
Client ID: MB-57798	Batch ID: 57798	Units: ug/L	Analysis Date: 03/03/11 14:37	SeqNo: 1487435
Analyte	Result	MDL	SPK Ref Val	%REC
Cyanide	ND	7.5	0	103
			SPK value	LowLimit
			100.0	80
			RL	HighLimit
			20	120
			RPD Ref Val	%RPD
			0	0.376
			RPDLimit	Qual

Sample ID: LCS-57798	SampType: LCS	TestCode: SW9012_W	Prep Date: 03/03/11 10:45	Run ID: LACHAT1_110303B
Client ID: LCS-57798	Batch ID: 57798	Units: ug/L	Analysis Date: 03/03/11 14:40	SeqNo: 1487436
Analyte	Result	MDL	SPK Ref Val	%REC
Cyanide	103.2	7.5	0	103
			SPK value	LowLimit
			100.0	80
			RL	HighLimit
			20	120
			RPD Ref Val	%RPD
			0	0.376
			RPDLimit	Qual

Sample ID: LCSD-57798	SampType: LCSD	TestCode: SW9012_W	Prep Date: 03/03/11 10:45	Run ID: LACHAT1_110303B
Client ID: LCSD-57798	Batch ID: 57798	Units: ug/L	Analysis Date: 03/03/11 14:42	SeqNo: 1487437
Analyte	Result	MDL	SPK Ref Val	%REC
Cyanide	103.6	7.5	0	104
			SPK value	LowLimit
			100.0	80
			RL	HighLimit
			20	120
			RPD Ref Val	%RPD
			0	0.376
			RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m11.03.16.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

0031

ANALYTICAL QC SUMMARY REPORT
SM2540_TDS
SM 2540C -- TOTAL DISSOLVED SOLIDS

CLIENT: AECOM Technical Services, Inc.
 Work Order: K0311
 Project: NOW Corp. Site

Sample ID: 1103703-BLK2	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 03/02/11 14:34	Run ID: SUB_110311B
Client ID: 1103703-BLK2	Batch ID: SAI-1103703	Units: mg/L	Analysis Date: 03/02/11 16:06	SeqNo: 1491050
Analyte	Result MDL	RL	SPK value	SPK Ref Val
Total Dissolved Solids	U	5.00	0	0
			%REC LowLimit HighLimit	RPD Ref Val
			0	0
				%RPD RPDLimit
				U

Sample ID: 1103703-BS1	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 03/02/11 14:34	Run ID: SUB_110311B
Client ID: 1103703-BS1	Batch ID: SAI-1103703	Units: mg/L	Analysis Date: 03/02/11 16:06	SeqNo: 1491051
Analyte	Result MDL	RL	SPK value	SPK Ref Val
Total Dissolved Solids	488.0	10.0	486.0	0
			%REC LowLimit HighLimit	RPD Ref Val
			100	90
				%RPD RPDLimit
				110

Sample ID: 1103703-BS2	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 03/02/11 14:34	Run ID: SUB_110311B
Client ID: 1103703-BS2	Batch ID: SAI-1103703	Units: mg/L	Analysis Date: 03/02/11 16:06	SeqNo: 1491052
Analyte	Result MDL	RL	SPK value	SPK Ref Val
Total Dissolved Solids	490.0	10.0	486.0	0
			%REC LowLimit HighLimit	RPD Ref Val
			101	90
				%RPD RPDLimit
				110

Sample ID: K0311-01DDUP1	SampType: DUP	TestCode: SM2540_TDS	Prep Date: 03/02/11 14:34	Run ID: SUB_110311B
Client ID: EFF-022511	Batch ID: SAI-1103703	Units: mg/L	Analysis Date: 03/02/11 16:06	SeqNo: 1491054
Analyte	Result MDL	RL	SPK value	SPK Ref Val
Total Dissolved Solids	251.0	5.00	0	0
			%REC LowLimit HighLimit	RPD Ref Val
			0	0
				%RPD RPDLimit
				3.0
				258.0
				20

0032

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m11.03.16.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: K0311

SM2540_TSS

Project: NOW Corp. Site

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: 1103772-BLK2	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 03/03/11 15:30	Run ID: SUB_110308E
Client ID: 1103772-BLK2	Batch ID: SAI-1103772	Units: mg/L	Analysis Date: 03/03/11 15:42	SeqNo: 1489415
Analyte	Result MDL	RL	SPK Ref Val	SPK value
Total Suspended Solids	U	5.00	0	0
			%REC LowLimit HighLimit	RPD Ref Val
				%RPD RPDLimit
				Qual

Sample ID: 1103772-BLK2	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 03/03/11 15:30	Run ID: SUB_110311C
Client ID: 1103772-BLK2	Batch ID: SAI-1103772	Units: mg/L	Analysis Date: 03/03/11 15:42	SeqNo: 1491058
Analyte	Result MDL	RL	SPK Ref Val	SPK value
Total Suspended Solids	U	5.00	0	0
			%REC LowLimit HighLimit	RPD Ref Val
				%RPD RPDLimit
				Qual

Sample ID: 1103772-BS1	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 03/03/11 15:30	Run ID: SUB_110308E
Client ID: 1103772-BS1	Batch ID: SAI-1103772	Units: mg/L	Analysis Date: 03/03/11 15:42	SeqNo: 1489416
Analyte	Result MDL	RL	SPK Ref Val	SPK value
Total Suspended Solids	U	10.0	0	82.00
			105	90
				110

Sample ID: 1103772-BS1	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 03/03/11 15:30	Run ID: SUB_110311C
Client ID: 1103772-BS1	Batch ID: SAI-1103772	Units: mg/L	Analysis Date: 03/03/11 15:42	SeqNo: 1491059
Analyte	Result MDL	RL	SPK Ref Val	SPK value
Total Suspended Solids	U	10.0	0	82.00
			105	90
				110

Sample ID: 1103772-BS2	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 03/03/11 15:30	Run ID: SUB_110308E
Client ID: 1103772-BS2	Batch ID: SAI-1103772	Units: mg/L	Analysis Date: 03/03/11 15:42	SeqNo: 1489417
Analyte	Result MDL	RL	SPK Ref Val	SPK value
Total Suspended Solids	U	10.0	0	82.00
			98.0	90
				110

Sample ID: 1103772-BS2	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 03/03/11 15:30	Run ID: SUB_110311C
Client ID: 1103772-BS2	Batch ID: SAI-1103772	Units: mg/L	Analysis Date: 03/03/11 15:42	SeqNo: 1491060
Analyte	Result MDL	RL	SPK Ref Val	SPK value
Total Suspended Solids	U	10.0	0	82.00
			98.0	90
				110

0030

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m11.03.16.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

WorkOrder: K0311

02/28/2011 09:39

Mitkem Laboratories

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

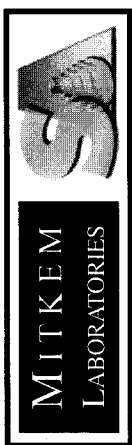
Case:
 SDG:
 PO: 94017.02

HC Due: 03/16/11 Report Level: LEVEL 2
 Fax Due: Special Program:
 Fax Report: EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0311-01A	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0311-01B	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	SW6010_W	/ See SEL list				Y	M3
K0311-01B	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	SW7470	/ See SEL list					M3
K0311-01C	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	SW9012_W	/				Y	Q2
K0311-01D	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	SM2540_TDS	SUB TO AGAWAM /					SUB
K0311-01D	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	SM2540_TSS	SUB TO AGAWAM /					SUB
K0311-01E	EFF-022511	02/25/2011 11:35	02/28/2011	Aqueous	E1664	SUB TO AGAWAM /					Q2
K0311-02A	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0311-02B	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	SW6010_W	/ See SEL list				Y	M3
K0311-02B	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	SW7470	/ See SEL list					M3
K0311-02C	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	SW9012_W	/				Y	Q2
K0311-02D	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	SM2540_TDS	SUB TO AGAWAM /					SUB
K0311-02D	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	SM2540_TSS	SUB TO AGAWAM /					SUB
K0311-02E	INF-022511	02/25/2011 11:45	02/28/2011	Aqueous	E1664	SUB TO AGAWAM /					Q2
K0311-03A	TW-1	02/25/2011 11:50	02/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0311-04A	TW-2A	02/25/2011 11:55	02/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0311-05A	TW-3	02/25/2011 12:00	02/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0311-06A	TRIP BLANK	02/25/2011 00:00	02/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA

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

HT = Test logged in but has been placed on hold



A DIVISION OF SPECTRUM ANALYTICAL, INC. FEATURING HAMBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

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

Report To: AECOM
40 British American Bld.
Latham NY 12110

Project Mgr.: Stephen Choiniere

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60135676 02

Site Name: Now Corp State: NY

Location: Stattsburg

Sampler(s): SPG

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= None 10= _____ 11= _____

List preservative code below:
24925

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

Notes: _____

QA/QC Reporting Level
 Level I Level II
 Level III Level IV
 Other _____

State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Containers:				Matrix	Analyses:	Notes:
					# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
K0311											
1	EFF-022511	2/25/11	11:35	G	2	3	0	0	X	Metals*	
2	INF-022511	2/25/11	11:45		2	3	0	0	X	O+G	
3	TW-1		11:50						X	TDS/TSS	
4	TW-2A		11:55						X	Cyanide	
5	TW-3		12:00						X		
6	Trip Blank										

Relinquished by: Stu Jay

Received by: _____

Date: 2/25/11 Time: 15:15

Condition upon receipt: Iced Ambient 5°C

MITKEM LABORATORIES

Sample Condition Form

Received By: <u>SW</u>	Reviewed By: <u>OT</u>	Date: <u>2/26/11</u>	Mitkem Work Order #: <u>K0311</u>					
Client Project: <u>NON CORP</u>	Client: <u>AECOM</u>	Soil Headspace or Air Bubble \geq 1/4"						
1) Cooler Sealed <u>Yes</u> / No 2) Custody Seal(s) <u>Present</u> / Absent <u>Coolers</u> / Bottles <u>Intact</u> / Broken 3) Custody Seal Number(s) <u>NA</u> 4) Chain-of-Custody <u>Present</u> / Absent 5) Cooler Temperature <u>5°C</u> IR Temp Gun ID <u>MTI</u> Coolant Condition <u>TC</u> 6) Airbill(s) <u>Present</u> / Absent Airbill Number(s) <u>FedEx</u> <u>8747 5541 6970</u> 7) Samples Bottles <u>Intact</u> / Broken / Leaking 8) Date Received <u>2/26/11</u> 9) Time Received <u>8:45</u>	Lab Sample ID	Preservation (pH)					VOA Matrix	
		HNO ₃	H ₂ SO ₄	HCl	NaOH	H ₃ PO ₄		
	<u>K0311 01</u>	<u>C2</u>		<u><2</u>	<u>712</u>		<u>H</u>	
	<u>↓</u>	<u>02</u>	<u>C2</u>		<u><2</u>	<u>712</u>		<u>↓</u>
	<u>↓</u>	<u>03</u>						
	<u>↓</u>	<u>04</u>						
<u>↓</u>	<u>05</u>						<u>↓</u>	
<u>K0311 06</u>	<u>06</u>						<u>H</u>	

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

Last Page of Data Report