

**Operation, Maintenance and Monitoring Report
December 2005**

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

**Work Assignment No.
D003821-29**

Prepared for:



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

Prepared by:

**Earth Tech Northeast, Inc.
40 British American Boulevard
Latham, New York 12110**

January 24, 2006

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
Monthly Summary Report – “December” 2005

Dear Mr. Hoffman:

Enclosed is a monthly summary report on the operation, monitoring and maintenance (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York. This report describes the OM&M of the soil vapor extraction (SVE) system and the groundwater pump-and-treat (P&T) system for a 28-day period (**November 29 – December 27, 2005**).

With the exceptions noted below (if any), the P&T system was online and operational throughout the reporting period. Approximately 659,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 23,500 gallons per day (gpd). During the prior reporting period, the average discharge was 22,800 gpd. As previously reported, the SVE system has been offline since November 2, 2005, when Earth Tech removed the vapor blower motor, which had a disabling oil leak.

As of the last day of the reporting period, a total of 49,489,300 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 13, 2005. There were **no exceedances** of effluent limitations. Table 2 summarizes selected operational data recorded on the last day of the reporting period, while Table 3 summarizes monitoring well water-level data collected on the sampling date. Table 4 summarizes the analytical results from a sample of the air-stripper stack emissions (sample PAS). A copy of the two laboratory data reports is included in this report.

Earth Tech made two site visits during the reporting period to conduct the required system inspections, perform scheduled and/or unscheduled maintenance, make monitoring-well water-level measurements, and perform the monthly sampling event. Details follow:

December 13th - Routine bi-weekly system inspection, monthly sampling, and groundwater-level measurements.

December 27th - Routine bi-weekly system inspection. Technicians cleaned the “scrubbers” (which remove moisture from effluent air) on the air stripper stack, and greased the motor on the air stripper blower.

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

Page 2
Mr. Carl Hoffman
NYSDEC

Sincerely,
Earth Tech Northeast

A handwritten signature in black ink, appearing to read "Stephen Choiniere". The signature is fluid and cursive, with the first name "Stephen" written in a larger, more prominent script than the last name "Choiniere".

Stephen R. Choiniere
Project Manager

Attachments

TABLES

Table 1
Summary of Influent and Effluent Data
Sampling Date: December 13, 2005
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	
			TW-1	TW-2A	TW-3	(units)	
Quantity treated, per day		23,536				Monitor	gpd
pH	7.3	7.7	NA	NA	NA	6.5 to 8.5	standard units
Oil and Grease	<1.4	<1.4	NA	NA	NA	15	mg/L
Total Cyanide	<0.01	<0.01	NA	NA	NA	0.01	mg/L
TDS	250	240	NA	NA	NA	1000	mg/L
TSS	<5	<5	NA	NA	NA	50	mg/L
Aluminum, Total	0.651	0.689	NA	NA	NA	2	mg/L
Arsenic, Total	<0.004	<0.004	NA	NA	NA	0.05	mg/L
Barium, Total	0.067	0.068	NA	NA	NA	2	mg/L
Chromium	<0.001	<0.001	NA	NA	NA	0.1	mg/L
Copper	<0.001	<0.001	NA	NA	NA	0.024	mg/L
Iron	0.011	0.015	NA	NA	NA	0.6	mg/L
Mercury	<0.0002	<0.0004	NA	NA	NA	0.0008	mg/L
Manganese	0.101	0.08	NA	NA	NA	0.6	mg/L
Nickel	<0.001	<0.001	NA	NA	NA	0.2	mg/L
Zinc	0.005	0.005	NA	NA	NA	0.15	mg/L
1,1,1-Trichloroethane	260	<0.5	1.7	740	3.6	5	ug/L
1,1,2-Trichloroethane	<5	<0.5	<0.5	<0.5	<0.5	1.2	ug/L
1,1-Dichloroethane	61	<0.5	40	150	8	5	ug/L
1,1-Dichloroethene	<5	<0.5	7.8	9.7	0.8	0.5	ug/L
1,2-Dichloroethane	<5	<0.5	<0.5	<0.5	<0.5	1.6	ug/L
Benzene	<5	<0.5	<0.5	<0.5	<0.5	0.8	ug/L
Chlorobenzene	<5	<0.5	<0.5	<0.5	<0.5	5	ug/L
Chloroethane	<5	<0.5	1.8	1.6	<0.5	5	ug/L
cis-1,2-Dichloroethene	5	<0.5	1.6	12	<0.5	5	ug/L
Ethylbenzene	<5	<0.5	<0.5	<0.5	<0.5	5	ug/L
Methyl tert-butyl ether	<20	<2	<2	<2	<2	5	ug/L
o-Xylene	<5	<0.5	<0.5	<0.5	<0.5	5	ug/L
p&m-Xylene	<5	<0.5	<0.5	<0.5	<0.5	10	ug/L
Tetrachloroethene	<5	<0.5	<0.5	<0.5	<0.5	1.4	ug/L
Toluene	<5	<0.5	<0.5	<0.5	<0.5	5	ug/L
trans-1,2-Dichloroethene	<5	<0.5	<0.5	<0.5	<0.5	5	ug/L
Trichloroethene	190	<0.5	37	420	9.2	5	ug/L
Vinyl Chloride	<5	<0.5	<0.5	0.7	<0.5	0.6	ug/L

Notes:

- 1) Positive results are presented in **bold** typeface. Numeric values are in 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 method detection limit.

Table 2
Summary of December 2005 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		12/27/2005	Units
<i>TW-1</i>			
	Pumping Rate	2	GPM
	Water Level Above Transducer	45.84	feet
	Flow Meter Reading	3,275,800	gallons
	Pump Pressure	85	psi
<i>TW-2A</i>			
	Pumping Rate	9	GPM
	Water Level Above Transducer	37.90	feet
	Flow Meter Reading	3,516,700	gallons
	Pump Pressure	23	psi
<i>TW-3</i>			
	Pumping Rate	4	GPM
	Water Level Above Transducer	34.61	feet
	Flow Meter Reading	1,869,600	gallons
	Pump Pressure	63	psi
<i>Air Stripper</i>			
	Stripper Blower Pressure	17	inches H ₂ O
	Air Temperature in Stripper	45	°F
	Pressure Gauge - Left Leg	1.2	inches H ₂ O
	Pressure Gauge - Right Leg	0.5	inches H ₂ O
	Pressure/Vacuum on the Stripper	-	inches H ₂ O
<i>Effluent Flow</i>			
	Total System Meter Reading	49,489,300	gallons
	IW-1 Flow Meter Reading	-	gallons
	IW-2 Flow Meter Reading	-	gallons
<i>Vapor Extraction System</i>			
	Vapor Blower Vacuum	Offline	inches Hg
	Vacuum before Filter with Dilution Air	"	inches Hg
	Vacuum on Knock-out Pot	"	inches Hg
	Blower Inlet Temperature	"	°F
	Blower Outlet Temperature	"	°F
	Pressure After Blower	"	psi
	Heat Exchanger Outlet Temperature	"	°F

Table 3
December 2005 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	12/13/2005	
		Depth to Water (Ft below MP)	GW Elevation
MW-1	289.50	10.39	279.11
MW-2	332.51	26.40	306.11
MW-3	312.83	33.98	278.85
MW-3S	312.51	21.85	290.66
MW-4	298.29	21.22	277.07
MW-4D	298.16	21.05	277.11
MW-5	285.48	18.00	267.48
MW-6S	287.90	4.62	283.28
MW-6D	287.25	7.12	280.13
MW-7S	292.12	22.91	269.21
MW-7D	292.54	60.38	232.16
OW-1	307.75	49.72	258.03
OW-2	305.96	71.07	234.89
OW-6	294.81	4.87	289.94
IW-1	312.46	25.84	286.62
IW-2	306.56	38.38	268.18
MW-8	283.65	N/A	N/A
MW-9	275.37	N/A	N/A
MW-10	280.92	N/A	N/A
MW-11	283.72	N/A	N/A
OW-3	307.35	N/A	N/A
OW-4	308.30	N/A	N/A
OW-5	307.41	N/A	N/A
TW-2	290.52	N/A	N/A

*Note: N/A indicates groundwater level was not measured.
MP denotes measuring point.*

Table 4
SVE and Groundwater Treatment Systems Air Sampling Data
Sampling Date: December 13, 2005

NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST-1		PAS		SVE-EXH		ST-4	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
Chloroethane	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
1,1-Dichloroethene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	22	5	NS	1.0	NS	1.0
1,1-Dichloroethane	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	220	5	NS	1.0	NS	1.0
cis-1,2-Dichloroethene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	17	5	NS	1.0	NS	1.0
1,1,1-Trichloroethane	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	750	5	NS	1.0	NS	1.0
Benzene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
1,2-Dichloroethane	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
Trichloroethene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	390	5	NS	1.0	NS	1.0
Toluene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
1,1,2-Trichloroethane	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
Tetrachloroethene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
Chlorobenzene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
Ethylbenzene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
p&m-Xylene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0
o-Xylene	NS	1.0	NS	NA	NS	NA	NS	1.0	NS	1.0	ND	5	NS	1.0	NS	1.0

Notes:

- 1) All results are reported in ppbv.
- 2) Positive results are presented in **bold** typeface.
- 3) ND indicates analyte was not detected at stated RL.
- 4) RL = reporting limit
- 5) NS = not sampled
- 6) NA = not applicable
- 7) D = Result reported from secondary dilution

Sample IDs:

TW-1VE = Well TW-1 Dual-Phase Vapor Extraction
TW-2AVE = Well TW-2A Dual-Phase Vapor Extraction
VE-1VE = Well VE-1 Vapor Extraction (offline)
VE-2VE = Well VE-2 Vapor Extraction (offline)

ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)
SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. drum carbon adsorbers
ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)
PAS = Air-stripper stack emissions

**INFLUENT & EFFLUENT WATER
ANALYTICAL REPORT**



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2005

FOR: Attn: Mr. Steve Choiniere
EarthTech Inc.
40 British American Boulevard
Latham NY 12110

Sample Information

Matrix: WATER
Location Code: EARTH-NY
Rush Request:
P.O.#:

Custody Information

Collected by: SG
Received by: LB
Analyzed by: see "By" below

Date

12/13/05
12/14/05

Time

12:00
9:30

Laboratory Data

SDG I.D.: GAG89471
Phoenix I.D.: AG89471

Client ID: 55849.01 EFFLUENT

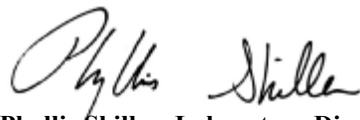
Parameter	Result	RL	Units	Date	Time	By	Reference
Aluminum	0.689	0.01	mg/L	12/15/05		EK	200.7/6010
Arsenic	< 0.004	0.004	mg/L	12/15/05		EK	200.7/6010
Barium	0.068	0.002	mg/L	12/15/05		EK	6010/E200.7
Chromium	< 0.001	0.001	mg/L	12/15/05		EK	200.7/6010
Copper	< 0.001	0.001	mg/L	12/15/05		EK	6010/E200.7
Iron	0.015	0.002	mg/L	12/15/05		EK	6010/E200.7
Mercury	< 0.0004	0.0004	mg/L	12/15/05		RS	7470/E245.1
Manganese	0.08	0.001	mg/L	12/15/05		EK	200.7/6010
Nickel	< 0.001	0.001	mg/L	12/15/05		EK	200.7/6010
Zinc	0.005	0.002	mg/L	12/15/05		EK	200.7/6010
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	12/14/05		CR	EPA 1664
Total Cyanide	< 0.01	0.01	mg/L	12/15/05		M/G	9010/335.3
Tot. Diss. Solids	240	10	mg/L	12/16/05		KL	SM2540C
Total Suspended Solids	< 5	5	mg/L	12/16/05		KL	SM2540D
Mercury Digestion	Completed			12/15/05		E	E245.1
Total Metals Digestion	Completed			12/14/05		AG	
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1,2-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
1,2-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
Benzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chlorobenzene	ND	0.5	ug/L	12/15/05		RM	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Chloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Ethylbenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
m&p-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Methyl t-butyl ether (MTBE)	ND	2	ug/L	12/15/05		RM	SW8260
o-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Tetrachloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Toluene	ND	0.5	ug/L	12/15/05		RM	SW8260
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Trichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Vinyl chloride	ND	0.5	ug/L	12/15/05		RM	SW8260
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	120		%	12/15/05		RM	SW8260

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2005

FOR: Attn: Mr. Steve Choiniere
EarthTech Inc.
40 British American Boulevard
Latham NY 12110

Sample Information

Matrix: WATER
Location Code: EARTH-NY
Rush Request:
P.O.#:

Custody Information

Collected by: SG
Received by: LB
Analyzed by: see "By" below

Date

12/13/05
12/14/05

Time

12:25
9:30

Laboratory Data

SDG I.D.: GAG89471
Phoenix I.D.: AG89472

Client ID: 55849.01 INFLUENT

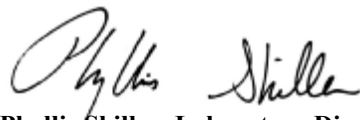
Parameter	Result	RL	Units	Date	Time	By	Reference
Aluminum	0.651	0.01	mg/L	12/15/05		EK	200.7/6010
Arsenic	< 0.004	0.004	mg/L	12/15/05		EK	200.7/6010
Barium	0.067	0.002	mg/L	12/15/05		EK	6010/E200.7
Chromium	< 0.001	0.001	mg/L	12/15/05		EK	200.7/6010
Copper	< 0.001	0.001	mg/L	12/15/05		EK	6010/E200.7
Iron	0.011	0.002	mg/L	12/15/05		EK	6010/E200.7
Mercury	< 0.0002	0.0002	mg/L	12/15/05		RS	7470/E245.1
Manganese	0.101	0.001	mg/L	12/15/05		EK	200.7/6010
Nickel	< 0.001	0.001	mg/L	12/15/05		EK	200.7/6010
Zinc	0.005	0.002	mg/L	12/15/05		EK	200.7/6010
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	12/14/05		CR	EPA 1664
Total Cyanide	< 0.01	0.01	mg/L	12/15/05		M/G	9010/335.3
Tot. Diss. Solids	250	10	mg/L	12/16/05		KL	SM2540C
Total Suspended Solids	< 5	5	mg/L	12/16/05		KL	SM2540D
Mercury Digestion	Completed			12/15/05		E	E245.1
Total Metals Digestion	Completed			12/14/05		AG	
<u>Volatiles</u>							
1,1,1-Trichloroethane	260	5	ug/L	12/15/05		RM	SW8260
1,1,2-Trichloroethane	ND	5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethane	61	5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethene	ND	5	ug/L	12/15/05		RM	SW8260
1,2-Dichloroethane	ND	5	ug/L	12/15/05		RM	SW8260
Benzene	ND	5	ug/L	12/15/05		RM	SW8260
Chlorobenzene	ND	5	ug/L	12/15/05		RM	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Chloroethane	ND	5	ug/L	12/15/05		RM	SW8260
cis-1,2-Dichloroethene	5	5	ug/L	12/15/05		RM	SW8260
Ethylbenzene	ND	5	ug/L	12/15/05		RM	SW8260
m&p-Xylene	ND	5	ug/L	12/15/05		RM	SW8260
Methyl t-butyl ether (MTBE)	ND	20	ug/L	12/15/05		RM	SW8260
o-Xylene	ND	5	ug/L	12/15/05		RM	SW8260
Tetrachloroethene	ND	5	ug/L	12/15/05		RM	SW8260
Toluene	ND	5	ug/L	12/15/05		RM	SW8260
trans-1,2-Dichloroethene	ND	5	ug/L	12/15/05		RM	SW8260
Trichloroethene	190	5	ug/L	12/15/05		RM	SW8260
Vinyl chloride	ND	5	ug/L	12/15/05		RM	SW8260
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	120		%	12/15/05		RM	SW8260

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
December 20, 2005



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
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Analysis Report

December 20, 2005

FOR: Attn: Mr. Steve Choiniere
EarthTech Inc.
40 British American Boulevard
Latham NY 12110

Sample Information

Matrix: WATER
Location Code: EARTH-NY
Rush Request:
P.O.#:

Custody Information

Collected by: SG
Received by: LB
Analyzed by: see "By" below

Date Time
12/13/05 12:30
12/14/05 9:30

Laboratory Data

SDG I.D.: GAG89471
Phoenix I.D.: AG89473

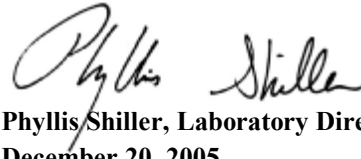
Client ID: 55849.01 TW-1

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1-Trichloroethane	1.7	0.5	ug/L	12/15/05		RM	SW8260
1,1,2-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethane	40	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethene	7.8	0.5	ug/L	12/15/05		RM	SW8260
1,2-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
Benzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chlorobenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chloroethane	1.8	0.5	ug/L	12/15/05		RM	SW8260
cis-1,2-Dichloroethene	1.6	0.5	ug/L	12/15/05		RM	SW8260
Ethylbenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
m&p-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Methyl t-butyl ether (MTBE)	ND	2	ug/L	12/15/05		RM	SW8260
o-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Tetrachloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Toluene	ND	0.5	ug/L	12/15/05		RM	SW8260
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Trichloroethene	37	0.5	ug/L	12/15/05		RM	SW8260
Vinyl chloride	ND	0.5	ug/L	12/15/05		RM	SW8260
<u>QA/OC Surrogates</u>							
% Bromofluorobenzene	120		%	12/15/05		RM	SW8260

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

A handwritten signature in black ink, appearing to read "Phyllis Shiller". The signature is fluid and cursive, with the first name "Phyllis" written in a larger, more prominent script than the last name "Shiller".

Phyllis Shiller, Laboratory Director
December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2005

FOR: Attn: Mr. Steve Choiniere
EarthTech Inc.
40 British American Boulevard
Latham NY 12110

Sample Information

Matrix: WATER
Location Code: EARTH-NY
Rush Request:
P.O.#:

Custody Information

Collected by: SG
Received by: LB
Analyzed by: see "By" below

Date

12/13/05
12/14/05

Time

12:35
9:30

Laboratory Data

SDG I.D.: GAG89471
Phoenix I.D.: AG89474

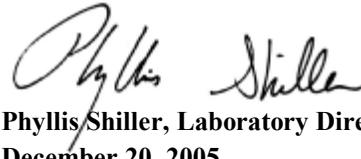
Client ID: 55849.01 TW-2A

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1-Trichloroethane	740	5.0	ug/L	12/15/05		RM	SW8260
1,1,2-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethane	150	5.0	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethene	9.7	0.5	ug/L	12/15/05		RM	SW8260
1,2-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
Benzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chlorobenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chloroethane	1.6	0.5	ug/L	12/15/05		RM	SW8260
cis-1,2-Dichloroethene	12	0.5	ug/L	12/15/05		RM	SW8260
Ethylbenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
m&p-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Methyl t-butyl ether (MTBE)	ND	2	ug/L	12/15/05		RM	SW8260
o-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Tetrachloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Toluene	ND	0.5	ug/L	12/15/05		RM	SW8260
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Trichloroethene	420	5.0	ug/L	12/15/05		RM	SW8260
Vinyl chloride	0.7	0.5	ug/L	12/15/05		RM	SW8260
<u>QA/OC Surrogates</u>							
% Bromofluorobenzene	120		%	12/15/05		RM	SW8260

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

A handwritten signature in black ink, appearing to read "Phyllis Shiller". The signature is fluid and cursive, with the first name "Phyllis" written in a larger, more prominent script than the last name "Shiller".

Phyllis Shiller, Laboratory Director
December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2005

FOR: Attn: Mr. Steve Choiniere
EarthTech Inc.
40 British American Boulevard
Latham NY 12110

Sample Information

Matrix: WATER
Location Code: EARTH-NY
Rush Request:
P.O.#:

Custody Information

Collected by: SG
Received by: LB
Analyzed by: see "By" below

Date Time
12/13/05 12:40
12/14/05 9:30

Laboratory Data

SDG I.D.: GAG89471
Phoenix I.D.: AG89475

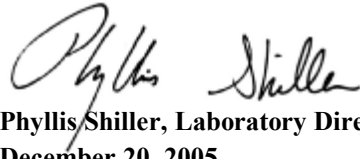
Client ID: 55849.01 TW-3

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1-Trichloroethane	3.6	0.5	ug/L	12/15/05		RM	SW8260
1,1,2-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethane	8	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethene	0.8	0.5	ug/L	12/15/05		RM	SW8260
1,2-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
Benzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chlorobenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Ethylbenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
m&p-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Methyl t-butyl ether (MTBE)	ND	2	ug/L	12/15/05		RM	SW8260
o-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Tetrachloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Toluene	ND	0.5	ug/L	12/15/05		RM	SW8260
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Trichloroethene	9.2	0.5	ug/L	12/15/05		RM	SW8260
Vinyl chloride	ND	0.5	ug/L	12/15/05		RM	SW8260
<u>QA/OC Surrogates</u>							
% Bromofluorobenzene	120		%	12/15/05		RM	SW8260

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

A handwritten signature in cursive script, reading "Phyllis Shiller".

Phyllis Shiller, Laboratory Director
December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2005

FOR: Attn: Mr. Steve Choiniere
EarthTech Inc.
40 British American Boulevard
Latham NY 12110

Sample Information

Matrix: WATER
Location Code: EARTH-NY
Rush Request:
P.O.#:

Custody Information

Collected by: SG
Received by: LB
Analyzed by: see "By" below

Date

12/13/05
12/14/05

Time

0:00
9:30

Laboratory Data

SDG I.D.: GAG89471
Phoenix I.D.: AG89476

Client ID: 55849.01 TRIP BLANK

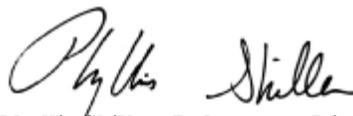
Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1,2-Trichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
1,1-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
1,2-Dichloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
Benzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chlorobenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
Chloroethane	ND	0.5	ug/L	12/15/05		RM	SW8260
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Ethylbenzene	ND	0.5	ug/L	12/15/05		RM	SW8260
m&p-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Methyl t-butyl ether (MTBE)	ND	2	ug/L	12/15/05		RM	SW8260
o-Xylene	ND	0.5	ug/L	12/15/05		RM	SW8260
Tetrachloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Toluene	ND	0.5	ug/L	12/15/05		RM	SW8260
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Trichloroethene	ND	0.5	ug/L	12/15/05		RM	SW8260
Vinyl chloride	ND	0.5	ug/L	12/15/05		RM	SW8260
<u>QA/OC Surrogates</u>							
% Bromofluorobenzene	90		%	12/15/05		RM	SW8260

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

TRIP BLANK INCLUDED

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

A handwritten signature in cursive script, reading "Phyllis Shiller".

Phyllis Shiller, Laboratory Director
December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 20, 2005

QA/QC Data

SDG I.D.: GAG89471

Parameter	Blank	Dup RPD	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
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QA/QC Batch Sample No: AG89463 (AG89471, AG89472)

ICP Metals - Aqueous

Aluminum	BDL	2.70	105			109	108	0.9
Antimony	BDL	4.10	102			106	106	0.0
Arsenic	BDL	NC	104			111	112	0.9
Barium	BDL	0.7	106			104	105	1.0
Beryllium	BDL	NC	105			106	107	0.9
Boron	BDL	---	---			---	---	
Cadmium	BDL	NC	104			102	103	1.0
Calcium	BDL	---	---			---	---	
Chromium	BDL	0.5	103			103	108	4.7
Cobalt	BDL	NC	105			102	103	1.0
Copper	BDL	1.10	107			109	111	1.8
Iron	BDL	NC	105			105	105	0.0
Lead	BDL	NC	102			97.6	98.0	0.4
Magnesium	BDL	---	---			---	---	
Manganese	BDL	NC	105			104	106	1.9
Molybdenum	BDL	---	---			---	---	
Nickel	BDL	0	105			102	104	1.9
Phosphorus	BDL	---	---			---	---	
Selenium	BDL	NC	103			110	111	0.9
Silver	BDL	NC	107			112	114	1.8
Thallium	BDL	NC	101			95.2	96.2	1.0
Tin	BDL	---	---			---	---	
Vanadium	BDL	NC	104			107	108	0.9
Zinc	BDL	0.6	104			106	109	2.8

QA/QC Batch Sample No: AG89471 (AG89471, AG89472)

Mercury	BDL		94			91		
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller, Laboratory Director

December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 20, 2005

QA/QC Data

SDG I.D.: GAG89471

Parameter	Blank	Dup RPD	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch Sample No: AG89006 (AG89471, AG89472)								
Total Cyanide	BDL		99			98		
QA/QC Batch Sample No: AG89017 (AG89471, AG89472)								
Oil and Grease by EPA 1664	BDL	NR	93.3					
QA/QC Batch Sample No: AG89471 (AG89471, AG89472)								
Tot. Diss. Solids	BDL	0.0	94.0					
QA/QC Batch Sample No: AG89471 (AG89471, AG89472)								
Total Suspended Solids	BDL		91					

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

Phyllis Shiller, Laboratory Director
December 20, 2005



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 20, 2005

QA/QC Data

SDG I.D.: GAG89471

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch Sample No: AG90143 (AG89474)							
<u>Volatiles Organics</u>							
1,1,1,2-Tetrachloroethane	ND	96			105	105	0.0
1,1,1-Trichloroethane	ND	96			90	96	6.5
1,1,2,2-Tetrachloroethane	ND	84			107	103	3.8
1,1,2-Trichloroethane	ND	75			102	105	2.9
1,1-Dichloroethane	ND	100			95	100	5.1
1,1-Dichloroethene	ND	88			88	94	6.6
1,1-Dichloropropene	ND	94			90	92	2.2
1,2,3-Trichlorobenzene	ND	153			107	126	16.3
1,2,3-Trichloropropane	ND	87			98	102	4.0
1,2,4-Trichlorobenzene	ND	116			97	100	3.0
1,2,4-Trimethylbenzene	ND	89			99	102	3.0
1,2-Dibromo-3-chloropropane	ND	113				106	
1,2-Dichlorobenzene	ND	95			106	88	18.6
1,2-Dichloroethane	ND	90			98	101	3.0
1,2-Dichloropropane	ND	95			98	98	0.0
1,3,5-Trimethylbenzene	ND	89			95	98	3.1
1,3-Dichlorobenzene	ND	93			101	105	3.9
1,3-Dichloropropane	ND	96			103	107	3.8
1,4-Dichlorobenzene	ND	95			105	106	0.9
2,2-Dichloropropane	ND					61	
2-Chlorotoluene	ND	89			96	98	2.1
4-Chlorotoluene	ND	89			97	102	5.0
Benzene	ND	96			95	99	4.1
Bromobenzene	ND	91			104	102	1.9
Bromochloromethane	ND	98			99	99	0.0
Bromodichloromethane	ND	96			97	97	0.0
Bromoform	ND	110			90	89	1.1
Bromomethane	ND	99					
Carbon tetrachloride	ND	90			89	95	6.5
Chlorobenzene	ND	98			101	104	2.9
Chloroethane	ND	108			97	97	0.0
Chloroform	ND	99			98	102	4.0

QA/QC Data

SDG I.D.: GAG89471

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
Chloromethane	ND	116				90	
cis-1,2-Dichloroethene	ND	98			98	102	4.0
cis-1,3-Dichloropropene	ND	88			84	87	3.5
Dibromochloromethane	ND	97			95	101	6.1
Dibromoethane	ND	69			102	101	1.0
Dibromomethane	ND	94			104	97	7.0
Dichlorodifluoromethane	ND	103			84	88	4.7
Ethylbenzene	ND	97			99	104	4.9
Hexachlorobutadiene	ND	110			84	90	6.9
Isopropylbenzene	ND	96			88	91	3.4
m&p-Xylene	ND	100			98	102	4.0
Methyl t-butyl ether (MTBE)	ND	102			91	95	4.3
Methylene chloride	ND	98			100	105	4.9
n-Butylbenzene	ND	90			98	102	4.0
n-Propylbenzene	ND	90			92	94	2.2
Naphthalene	ND				101		
o-Xylene	ND	94			93	99	6.3
p-Isopropyltoluene	ND	95			95	97	2.1
sec-Butylbenzene	ND	83			90	94	4.3
Styrene	ND	92			77	85	9.9
tert-Butylbenzene	ND	88			94	96	2.1
Tetrachloroethene	ND	122			97	99	2.0
Toluene	ND	93			93	99	6.3
trans-1,2-Dichloroethene	ND	96			94	98	4.2
trans-1,3-Dichloropropene	ND	80			88	87	1.1
Trichloroethene	ND	93			93	99	6.3
Trichlorofluoromethane	ND	96			80	83	3.7
Vinyl chloride	ND	104			93	97	4.2
% 1,2-dichlorobenzene-d4	92	100			104	87	17.8
% Bromofluorobenzene	109	97			104	103	1.0
% Dibromofluoromethane	97	104			100	103	3.0
% Toluene-d8	100	100			101	99	2.0

Comment: LFB was analyzed with this batch instead of MS/MSD

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

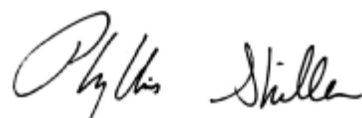
RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate



Phyllis Shiller, Laboratory Director

December 20, 2005



Chain of Custody Record

Project Number 55849.01				Project Name/Client EARTH TECH NEW. CORP.				Custody Seal #				Earth Tech Cooler #			
Sample Custodian: (Signature) <i>Steve Chaviere</i>								Matrix							
Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp	PID Reading (ppm)	Label Number	Analysis Required				Sample Type	Sample Container		
								AS, BA, CR, CU	FE, MN, HC	TD5, TSS	0 + G	CYANIDE			
1	EFF	12-05	12-13-05 11:40	X				X	X				GC	1000 ML	
2			11:45					X					X	500 ML	
3			11:50						X						
4			11:55							X					
5			12:00								X				
6	INF	12-05	12:05					X	X					2	
7			12:10					X							
8			12:15						X						
9			12:20							X					
10			12:25								X				
11	TW-1		12:30					X						2	
12	TW-2A		12:35					X						2	
13	TW-3		12:40					X						2	
14	TRIP-BLANK							X						2	
15															
16															
17															
18															
Relinquished by: (Signature) <i>Steve Chaviere</i>								Received by: (Signature) <i>Mike P. P.</i>				Date / Time 12-13-05 1:00			
Relinquished by: (Signature) <i>Steve Chaviere</i>								Received by: (Signature) <i>Mike P. P.</i>				Date / Time 12-14-05 9:30			
Send Lab Results To: STEVE CHAVIERE EARTH TECH 40 BRITISH AMERICAN BLVD. LATHAM, N.Y.								Check Delivery Method: SEE				Laboratory Receiving Notes: Samples delivered in person Common carrier			
Custody Seal Intact?								Custody Seal Intact?				Date / Time 12/13/1545			
Temp. of Shipping Container:								Temp. of Shipping Container:				Date / Time			
Sample Condition:								Sample Condition:							

**INFLUENT & EFFLUENT AIR
ANALYTICAL REPORT**

December 21, 2005

RECEIVED

DEC 30 2005


Cert. #E87847

Earth Tech
ATTN: Steve Choiniere
40 British American Blvd.
Latham, NY 12110

EARTHTECH-ALBANY

LABORATORY TEST RESULTS

Project Reference: NOW Corp., 55849.02
Lab Number: A5121401-01

Enclosed are results for sample(s) received 12/14/05 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

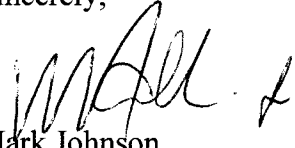
Report Narrative:

- Sample was collected in a Tedlar bag, which is a modification to EPA Method TO14/TO14A.
- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.

Results were faxed to Steve Choiniere on 12/21/05.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,


Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: EarthTech
Attn: Steve Choiniere

Page 2 of 3
A5121401

Client's Project: NOW CORP., 55849.02
Date Received: 12/14/05
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:	A5121401-01																			
Client Sample I.D.:	PAS 12/05																			
Date Sampled:	12/13/05																			
Date Analyzed:	12/14/05																			
QC Batch No:	051214MS2A1																			
Analyst Initials:	JM																			
Dilution Factor:	5.0																			
ANALYTE	PQL	Result	RL																	
Vinyl Chloride	1.0	ND	5.0																	
Chloroethane	1.0	ND	5.0																	
1,1-Dichloroethene	1.0	22	5.0																	
1,1-Dichloroethane	1.0	220	5.0																	
c-1,2-Dichloroethene	1.0	17	5.0																	
1,1,1-Trichloroethane	1.0	750	5.0																	
Benzene	1.0	ND	5.0																	
1,2-Dichloroethane	1.0	ND	5.0																	
Trichloroethene	1.0	390	5.0																	
Toluene	1.0	ND	5.0																	
1,1,2-Trichloroethane	1.0	ND	5.0																	
Tetrachloroethene	1.0	ND	5.0																	
Chlorobenzene	1.0	ND	5.0																	
Ethylbenzene	1.0	ND	5.0																	
p,&m-Xylene	1.0	ND	5.0																	
o-Xylene	1.0	ND	5.0																	

PQL = Practical Quantitation Limit

ND= Not Detected (below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date 12/21/05

The cover letter is an integral part of this analytical report



QC Batch #: 051214MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/14/05		12/14/05		12/14/05						
Data File ID:	14DEC005.D		14DEC003.D		14DEC004.D						
Analyst Initials:	JM		JM		JM						
Dilution Factor:	0.2		1.0		1.0						
								Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.8	108	10.7	107	1.7	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.5	105	10.3	103	1.8	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.2	102	0.9	70	130	30	Pass
Toluene	0.0	10.0	10.0	100	10.0	100	0.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.7	97	9.7	97	0.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____

Mark Johnson

Operations Manager

Date: _____

12/21/05

The cover letter is an integral part of this analytical report





Project Number 55849.01		Project Name/Client EARTH TECH		Custody Seal #		Earth Tech Cooler #	
Sample Custodian: (Signature) <i>Steve Days</i>		NOVA CORP.		Analysis Required (ANALYTE LIST PER 8/12/98 B.D. LIST)		Matrix	
Item No.	Sample Description (Field ID Number)	Date	Time	Comp	PID Reading (ppm)	Label Number	
1	PAS 12-0512-13-0512-13	12/13/05	12:45	N/A	N/A		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

Relinquished by: (Signature) <i>Steve Days</i>	Date / Time 12-13-05 12:55	Received by: (Signature) <i>John DeLoe</i>	Disposed of by: (Signature)
Relinquished by: (Signature) <i>Felix</i>	Date / Time 12/14/05 11:21	Received by: (Signature) <i>John DeLoe</i>	Disposed of by: (Signature)

Send Lab Results To: STEVE CHAMBERLAIN EARTH TECH 40 BRITISH AMERICAN BLVD. LATHAM, N.Y. 12110	Remarks: TAT: 10 BUSINESS DAYS JUST SEND COOLER BACK C/O ROGER GRAY FOR NEXT SAMP. EVENT. Federal Express Airbill No.: 8534-6781-0249 Lab:	Check Delivery Method: ☐ Samples delivered in person ☒ Common carrier	Laboratory Receiving Notes: Custody Seal Intact? Yes Temp. of Shipping Container: 1 Sample Condition: good / intact
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