Operation, Maintenance and Monitoring Report
July 2001

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-10

Prepared for:

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

Prepared by:

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

40 British American Boulevard, Latham, New York 12110

August 2, 2002

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – July 2001

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Earth Tech is pleased to provide you with a monthly summary report for the operation, monitoring and maintenance of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York.

This report covers the operation, maintenance and monitoring of the vapor extraction system and the groundwater pump and treatment system for the period July 6, 2001 to July 27, 2001. In summary, approximately 366,600 gallons of water were treated during the reporting period.

The treatment system was not operational during the previous months. Several of the electronic components of the groundwater extraction system were damaged from electrical storm lightning strikes. Malfunctioning Omega pressure transducers and Apollo IMP microprocessors contributed to pump problems in the wells. Together, these components use water level data to control the well pumps. Due to these problems, the treatment system shut down for an extended period while the components were evaluated, repaired and/or replaced.

Discharge from the treatment system averaged approximately 16,664 gallons per day. Approximately 100 percent of the treated effluent was discharged to Crum Elbow Creek and 0 percent was injected, via wells IW-1 and IW-2, into the bedrock aquifer.

Table 1 summarizes influent and effluent data for samples collected on July 18, 2001. All of the effluent treatment requirements were met. A copy of the laboratory report is attached.

Earth Tech made four site visits to conduct the required monthly maintenance and sampling. Table 2 summarizes the operation and maintenance data. Table 3 summarizes monitoring well water level data. Monthly air sampling also occurred on July 18, 2001. Table 4 summarizes the groundwater treatment system air sampling data and Table 5 summarizes the post air stripper data. Copies of the laboratory reports are attached. The system notified Earth Tech that the intake shut the system down. The intake screen was cleaned of various debris and the system restarted.

Earth Tech personnel performed the following maintenance items in addition to routine monitoring of system temperatures, pressures, flow measurements, monitoring well water levels, air sampling, etc.:

- Changed oil in the vapor extraction system blower motor.
- Back-flushed sand filter (two events).
- Cleared area around wells and repainted with yellow paint.
- Replaced three bags of anthracite from sand filter.
- Cleaned sediment tanks.
- Cleaned air filter on vapor blower.

As of July 27, 2001, a total of 22,710,300 gallons of groundwater were recovered and treated by the system.

Please feel free to contact me at (518) 951-2229 should you have any questions regarding the operation of the treatment system.

Sincerely,

Keith A. Decker

Keith A. Decker
Project Manager

Attachments

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Table 1
Summary of Influent and Effluent Data

NOW Corporation Site
Town of Clinton, New York

Effluent Parameters	07/18/01 Influent	07/18/01 Effluent	Treatment TW-1	Treatment TW-2A	Treatment TW-3	
Flow (Ave. Daily)	*NA*	16,664				
pH	NA	NA				
Vinyl Chloride	ND	ND	ND	ND	ND	
Chloroethane	ND	ND	ND	ND	ND	
1,1-Dichloroethene	**23**	ND	**14**	**32**	ND	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	
1,1-Dichloroethane	**290**	ND	**120**	**430**	**49**	
cis-1,2-Dichloroethene	**10**	ND	ND	ND	ND	
1,1,1-Trichloroethane	**1700**	ND	**26**	**3200**	**69**	
Benzene	ND	ND	ND	ND	ND	
1,2-Dichloroethane	ND	ND	ND	ND	ND	
Trichloroethene	**480**	ND	**94**	**790**	**19**	
Toluene	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	
Chlorobenzene	ND	ND	ND	ND	ND	
Ethylbenzene	ND	ND	ND	ND	ND	
1,2- and 1,4-Xylenes	ND	ND	ND	ND	ND	
1,3-Xylene	ND	ND	ND	ND	ND	
Aluminum, Total	ND	ND		2000	ug/L	
Arsenic, Total	ND	ND		50	ug/L	
Barium, Total	**80**	**70**		2000	ug/L	
Chromium	ND	ND		100	ug/L	
Copper	ND	ND		24	ug/L	
Iron	ND	ND		600	ug/L	
Manganese	**160**	ND		600	ug/L	
Mercury	ND	ND		0.8	ug/L	
Nickel	ND	ND		200	ug/L	
Zinc	ND	ND		150	ug/L	
Oil and Grease	ND	ND		15	mg/L	
Cyanide	ND	ND		10	ug/L	
TDS	**250**	**250**		1000	mg/L	
TSS	**1.5**	ND		50	mg/L	

Notes:

1) Positive results are presented in ***bold*** *typeface.*

2) ND indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) " ***J*** *" indicates an estimated concentration below the method detection limit.*

5) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

* Average daily flow as measured July 6 to July 27, 2001.

Table 2
Summary of July 2001 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:	7/6/01	7/18/01	7/27/01	units
TW-1				
Pumping Rate	6	4	4	GPM
Water Level Above Transducer	NW	NW	NW	feet
Flow Meter Reading	7,910,800	7,971,500	8,022,100	gallons
Pump Pressure	66	27	27	psi
TW-2A				
Pumping Rate	10	9	8	GPM
Water Level Above Transducer	NW	NW	NW	feet
Flow Meter Reading	12,532,600	12,646,300	12,758,200	gallons
Pump Pressure	60	47	35	psi
TW-3				
Pumping Rate	4	4	3	GPM
Water Level Above Transducer	NW	NW	NW	feet
Flow Meter Reading	5,017,200	5,066,700	5,111,500	gallons
Pump Pressure	75	56	38	psi
Air Stripper				
Stripper Blower Pressure	18	18	16	inches H_2O
Air Temperature in Stripper	50	52	50	°F
Pressure Gauge - Left Leg	1	1	1	inches H_2O
Pressure Gauge - Right Leg	0.05	0.03	0.5	inches H_2O
Pressure/Vacuum on the Stripper			0	inches H_2O
Sand Filter				
Influent Pressure	17	11	16	psi
Effluent Pressure	5	6	6	psi
Differential Pressure Across Filter	12	5	5	psi
Effluent Flow				
Total System Meter Reading	22,343,700	22,534,900	22,710,300	gallons
IW-1 Flow Meter Reading	1,259,827	1,259,827	1,259,827	gallons
IW-2 Flow Meter Reading	1,748,748	1,748,748	1,748,748	gallons
Vapor Extraction System				
Vapor Blower Vacuum	9.5	9.0	8.0	inches Hg
Vacuum before Filter with Dilution Air	9.0	8.0	7.0	inches Hg
Vacuum on Knock-out Pot	11.5	12.0	10.0	inches Hg
Blower Inlet Temperature	68	78	68	°F
Blower Outlet Temperature	192	196	181	°F
Pressure After Blower	44	48	54	psi
Heat Exchanger Outlet Temperature	72	80	60	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
Summary of July 2001 Water Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	M.P. Elevation	7/6/01		7/27/01	
		Depth to Water (ft b.m.p.)	GW Elevation	Depth to Water (ft b.m.p.)	GW Elevation
MW-1	289.50	13.48	276.02	20.18	269.32
MW-2	332.51	31.37	301.14	33.25	299.26
MW-3	312.83	30.61	282.22	33.76	279.07
MW-3S	312.51	26.72	285.79	28	284.51
MW-4	298.29	23.82	274.47	28.38	269.91
MW-4D	298.16	23.69	274.47	28.24	269.92
MW-5	285.48	19.12	266.36	20.7	264.78
MW-6S	287.90	7.85	280.05	24.14	263.76
MW-6D	287.25	10.95	276.30	17.78	269.47
MW-7S	292.12	13.64	278.48	31.75	260.37
MW-7D	292.54	33.33	259.21	76.88	215.66
MW-8	283.65	15.53	268.12	*N/A*	*N/A*
MW-9	275.37	7.00	268.37	*N/A*	*N/A*
MW-10	280.92	12.59	268.33	*N/A*	*N/A*
MW-11	283.72	22.00	261.72	*N/A*	*N/A*
OW-1	307.75	38.72	269.03	61.25	246.50
OW-2	305.96	60.14	245.82	73.05	232.91
OW-3	307.35	57.17	250.18	*N/A*	*N/A*
OW-4	308.30	37.32	270.98	*N/A*	*N/A*
OW-5	307.41	33.03	274.38	*N/A*	*N/A*
OW-6	294.81	7.72	287.09	11.57	283.24
IW-1	312.46	12.13	300.33	9.28	303.18
IW-2	306.56	9.03	297.53	8.00	298.56
TW-2	290.52	10.59	279.93	N/A	#VALUE!

Note: N/A indicates Not Available.

Table 4
July 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE 07/18/01		TW-2AVE 07/18/01		VE-1VE 07/18/01		VE-2VE 07/18/01		ST-1 07/18/01		SVE-EXH 07/18/01		ST-4 07/18/01	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	25	ND	25	**1.5**	25	ND	25	**2.2**	25	**2.9**	25	**2.3**	25
Chloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
1,1-Dichloroethene	**7.3**	25	**7.1**	25	**7**	25	**7.1**	25	**7.9**	25	**27**	25	**35**	25
1,1-Dichloroethane	**24.0**	25	**21**	25	**22**	25	**21**	25	**17**	25	**181**	25	**195**	25
cis-1,2-Dichloroethene	**11.0**	25	**12**	25	**10**	25	**11**	25	**12**	25	**13**	25	ND	25
1,1,1-Trichloroethane	**71.0**	25	**56**	25	**61**	25	**55**	25	**46**	25	**64**	25	ND	25
1,2-Dichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Benzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Trichloroethene	**176**	25	**189**	25	**174**	25	**181**	25	**184**	25	ND	25	ND	25
Toluene	**5.6**	25	**4.3**	25	**5.8**	25	**4.5**	25	**6.2**	25	**4.9**	25	**3.4**	25
1,1,2-Trichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Tetrachloroethene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Chlorobenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Ethylbenzene	**1.1**	25	ND	25	ND	25	ND	25	**1.9**	25	ND	25	ND	25
p&m -Xylene	**4.2**	25	**1.7**	25	**3.4**	25	**1.8**	25	**7.3**	25	ND	25	ND	25
o-Xylene	**1.5**	25	ND	25	**1.1**	25	ND	25	**2.4**	25	ND	25	ND	25

Notes:

1) All results are reported in ppbv.

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Legend:

TW-1VE=Well TW-1 Vapor Extraction
TW-2AVE=Well TW-2A Vapor Extraction
VE-1VE=Well VE-1 Vapor Extraction
VE-2VE=Well VE-2 Vapor Extraction

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)

Table 5
July 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	Post Air Stripper (PAS) 07/18/01	
	Results	RL
Vinyl Chloride	**ND**	25
Chloroethane	**ND**	25
1,1-Dichloroethene	**39**	25
1,1-Dichloroethane	**481**	25
cis-1,2-Dichloroethene	ND	25
1,1,1-Trichloroethane	**2,290**	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	**463**	25
Toluene	ND	25
1,1,2-Trichloroethane	ND	25
Tetrachloroethene	**20**	25
Chlorobenzene	ND	25
Ethylbenzene	ND	25
p&m -Xylene	ND	25
o-Xylene	ND	25

Notes:

1) All results are reported in ppbv .

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

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LABORATORY REPORT

for

Earth Tech
12 Metro Park Road
Albany, NY 12205

Attention: Keith Decker

PJ:32413.10400

Report date: 08/01/01
Number of samples analyzed: 6
AES Project ID: 010718AZ
Invoice #: 230308

ELAP ID#: 10709

AIHA ID#: 100307

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 010718AZ01
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-Y-31	07/23/01
Total Dissolved Solids	EPA-160.1	250	mg/l	LS-Y-29	07/20/01
Oil & Grease	EPA-1664	<1	mg/l	JK-C-32	07/25/01
Cyanide,Total	EPA-335.3	<0.01	mg/l	MC-H	07/28/01
Zinc	EPA-200.7	<0.01	mg/l	SM-I-3F-47	07/23/01
Aluminum	EPA-200.7	<0.1	mg/l	SM-I-3F-47	07/23/01
Arsenic	EPA-200.7	<0.005	mg/l	SM-I-3F-47	07/23/01
Barium	EPA-200.7	0.07	mg/l	SM-I-3F-47	07/23/01
Copper	EPA-200.7	<0.01	mg/l	SM-I-3F-47	07/23/01
Iron	EPA-200.7	<0.05	mg/l	SM-I-3F-47	07/23/01
Manganese	EPA-200.7	<0.02	mg/l	SM-I-3F-47	07/23/01
Mercury	EPA-245.1	<0.0004	mg/l	WB-PSR-57	07/24/01
Nickel	EPA-200.7	<0.05	mg/l	SM-I-3F-47	07/23/01
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 010718AZ01
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/13/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 010718AZ02
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	1.5	mg/l	JK-Y-31	07/23/01
Total Dissolved Solids	EPA-160.1	250	mg/l	LS-Y-29	07/20/01
Oil & Grease	EPA-1664	<1	mg/l	JK-C-32	07/25/01
Cyanide,Total	EPA-335.3	<0.01	mg/l	MC-H	07/28/01
Zinc	EPA-200.7	<0.01	mg/l	SM-I-3F-47	07/23/01
Aluminum	EPA-200.7	<0.1	mg/l	SM-I-3F-47	07/23/01
Arsenic	EPA-200.7	<0.005	mg/l	SM-I-3F-47	07/23/01
Barium	EPA-200.7	0.08	mg/l	SM-I-3F-47	07/23/01
Copper	EPA-200.7	<0.01	mg/l	SM-I-3F-47	07/23/01
Iron	EPA-200.7	<0.05	mg/l	SM-I-3F-47	07/23/01
Manganese	EPA-200.7	0.16	mg/l	SM-I-3F-47	07/23/01
Mercury	EPA-245.1	<0.0004	mg/l	WB-PSR-57	07/24/01
Nickel	EPA-200.7	<0.05	mg/l	SM-I-3F-47	07/23/01
Benzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethane	EPA-8260	290	ug/l	MG-SAT-E-5	07/24/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 010718AZ02
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-8260	23	ug/l	MG-SAT-E-5	07/24/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1,1-Trichloroethane	EPA-8260	1700	ug/l	MG-SAT-E-5	07/24/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Trichloroethene	EPA-8260	480	ug/l	MG-SAT-E-5	07/24/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-1
AES sample #: 010718AZ03
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethane	EPA-8260	120	ug/l	MG-SAT-E-5	07/24/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethene	EPA-8260	14	ug/l	MG-SAT-E-5	07/24/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1,1-Trichloroethane	EPA-8260	26	ug/l	MG-SAT-E-5	07/24/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Trichloroethene	EPA-8260	94	ug/l	MG-SAT-E-5	07/24/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 010718AZ04
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chlorobenzene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chloroethane		EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethane		EPA-8260	430	ug/l	MG-SAT-E-5	07/24/01
1,2-Dichloroethane		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
cis-1,2-Dichloroethene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
trans-1,2-Dichloroethene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethene		EPA-8260	32	ug/l	MG-SAT-E-5	07/24/01
Ethylbenzene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Tetrachloroethene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Toluene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1,1-Trichloroethane		EPA-8260	3200	ug/l	MG-SAT-E-5	07/24/01
1,1,2-Trichloroethane		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Trichloroethene		EPA-8260	790	ug/l	MG-SAT-E-5	07/24/01
Vinyl Chloride		EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
m,p-Xylene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
o-Xylene		EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-3
AES sample #: 010718AZ05
Samples taken by: R. Gray
MATRIX: Ground Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethane	EPA-8260	49	ug/l	MG-SAT-E-5	07/24/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
1,1,1-Trichloroethane	EPA-8260	69	ug/l	MG-SAT-E-5	07/24/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
Trichloroethene	EPA-8260	19	ug/l	MG-SAT-E-5	07/24/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E-5	07/24/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E-5	07/24/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: Trip Blanks
AES sample #: 010718AZ06 Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 07/18/01
Date sample received: 07/18/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E-5	07/24/01

APPROVED BY: _____
Report date: 08/01/01

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Chain of Custody Record

Custody Seal #

Rust E&I Cooler #

Project Number: 32413.10400

Project Name/Client: EARTH TECH NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: ZN, AL, AS, BA, CN	METALS: CU, FE, MN, HG, NI	TDS	TSS	O+G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40 mL.
01	EFF. 7/18	7-18-01	12:15	X				X							X	3
2			12:30						X	X						1
3			12:35								X	X				1
4												⊗				
5			12:20										X			1
6			12:25											X		1
02	INF. 7/18		12:35					X								3
8			12:55						X	X						1
9			12:50								X	X				1
10												⊗				
11			12:46										X			1
12			12:45											X		1
13	TW-1 7/18		12:30					X								2
14	TW-2A 7/18		12:35					X								2
15	TW-3 7/18		12:46					X								2
16	TRIP BLANKS							X								2
17																
18																

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	7-18-01 4:10				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: KEITH DECKER
EARTH TECH.
12 METRO PARK RD.
ALBANY N.Y.
12205

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:

☐ Samples delivered in person
☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 07/19/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1071903-01		A1071903-02		A1071903-03		A1071903-04		A1071903-05	
Client Sample I.D.:		TW-1VE 7/18		VE-1VE 7/18		VE-2VE 7/18		TW-2AVE 7/18		ST-1 7/18	
Date Sampled:		07/18/01		07/18/01		07/18/01		07/18/01		07/18/01	
Date Analyzed:		07/20/01		07/20/01		07/20/01		07/20/01		07/20/01	
QC Batch No:		010720MS2A1		010720MS2A1		010720MS2A1		010720MS2A1		010720MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	1.5	1.0	ND	1.0	ND	1.0	2.2	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	7.3	1.0	7.0	1.0	7.1	1.0	7.1	1.0	7.9	1.0
1,1-Dichloroethane	1.0	24	1.0	22	1.0	21	1.0	21	1.0	17	1.0
c-1,2-Dichloroethene	1.0	11	1.0	10	1.0	11	1.0	12	1.0	12	1.0
1,1,1-Trichloroethane	1.0	71	1.0	61	1.0	55	1.0	56	1.0	46	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	176	1.0	174	1.0	181	1.0	189	1.0	184	1.0
Toluene	1.0	5.6	1.0	5.8	1.0	4.5	1.0	4.3	1.0	6.2	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	1.1	1.0	ND	1.0	ND	1.0	ND	1.0	1.9	1.0
p,&m-Xylene	1.0	4.2	1.0	3.4	1.0	1.8	1.0	1.7	1.0	7.3	1.0
o-Xylene	1.0	1.5	1.0	1.1	1.0	ND	1.0	ND	1.0	2.4	1.0

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 7-27-01

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 07/19/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1071903-06		A1071903-07		A1071903-08					
Client Sample I.D.:		PAS 7/18		SVE-EXH 7/18		ST-4 7/18					
Date Sampled:		07/18/01		07/18/01		07/18/01					
Date Analyzed:		07/20/01		07/20/01		07/20/01					
QC Batch No:		010720MS2A1		010720MS2A1		010720MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		20		1.0		1.0					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	20	2.9	1.0	2.3	1.0				
Chloroethane	1.0	ND	20	ND	1.0	ND	1.0				
1,1-Dichloroethene	1.0	39	20	27	1.0	35	1.0				
1,1-Dichloroethane	1.0	481	20	181	1.0	195	1.0				
c-1,2-Dichloroethene	1.0	ND	20	13	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	2,290	20	64	1.0	ND	1.0				
Benzene	1.0	ND	20	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	20	ND	1.0	ND	1.0				
Trichloroethene	1.0	463	20	ND	1.0	ND	1.0				
Toluene	1.0	ND	20	4.9	1.0	3.4	1.0				
1,1,2-Trichloroethane	1.0	ND	20	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	20	20	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	20	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	20	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	ND	20	ND	1.0	ND	1.0				
o-Xylene	1.0	ND	20	ND	1.0	ND	1.0				

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 7-27-01

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Spike Recovery and RPD Summary Report - AIR (010720MS2A1)

Method : D:\GCMSB\METHODS\TO151005.M (RTE Integrator)
Title : EPA TO-15(10/05/00),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Jul 13 17:22:06 2001
Response via : Initial Calibration

Method Blank: 20JUL005.D

	Laboratory Control Sample	Laboratory Control Sample Duplicate
File ID :	20JUL003.D	20JUL004.D
Sample :	LCS	LCSD
Acq Time:	20 Jul 2001 10:34	20 Jul 2001 11:07

Compound	Blank Conc	Spike Added	LCS Res	LCSD Res	LCS %Rec	LCSD %Rec	RPD	QC Limits RPD	QC Limits %Rec
1,1-Dichloroethene	0.0	10	8.5	8.2	85	82	3.9	30	70-130
Methylene Chloride	0.0	10	9.7	9.5	97	95	2.0	30	70-130
Trichloroethene	0.0	10	8.0	7.7	80	77	2.9	30	70-130
Toluene	0.0	10	8.6	8.3	86	83	3.9	30	70-130
1,1,2,2-Tetrachloro	0.0	10	9.4	9.2	94	92	2.2	30	70-130

- Fails Limit Check

TO151005.M Fri Jul 20 17:44:13 2001 GCMSB

Operation, Maintenance and Monitoring Report
August 2001

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-10

Prepared for:

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

Prepared by:

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

[illegible] Boulevard, Latham, New York 12110

August 2, 2002

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – August 2001

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Earth Tech is pleased to provide you with a monthly summary report for the operation, monitoring and maintenance of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York.

This report covers the operation, maintenance and monitoring of the vapor extraction system and the groundwater pump and treatment system for the period July 27, 2001 to August 29, 2001. In summary, approximately 532,600 gallons of water were treated during the reporting period.

Several of the electronic components of the groundwater extraction system are still not operating properly due to damage sustained from previous electrical storm lightning strikes. These systems give erroneous readings, but do not hinder the ability of the treatment system to function. The system flow levels have been reduced to minimize the possibility of cavitation. These systems will be further evaluated and repaired or replaced upon the approval of a new budget for this project.

Discharge from the treatment system averaged approximately 16,139 gallons per day. Approximately 100 percent of the treated effluent was discharged to Crum Elbow Creek and 0 percent was injected, via wells IW-1 and IW-2, into the bedrock aquifer.

Table 1 summarizes influent and effluent data for samples collected on August 15, 2001. All of the effluent treatment requirements were met. A copy of the laboratory report is attached.

Earth Tech made four site visits to conduct the required monthly maintenance and sampling. Table 2 summarizes the operation and maintenance data. Table 3 summarizes monitoring well water level data. Monthly air sampling also occurred on August 15, 2001. Table 4 summarizes the groundwater treatment system air sampling data and Table 5 summarizes the post air stripper data. Copies of the laboratory reports are attached.

Earth Tech personnel performed the following maintenance items in addition to routine monitoring of system temperatures, pressures, flow measurements, monitoring well water levels,

air sampling, etc.:

- Added oil in the vapor extraction system blower motor.
- Back-flushed sand filter (three events).
- Assumed that meters in IW-1 and IW-2 may be clogged because there has been no change in readings (need to perform confined space to access).
- Adjusted make-up air on blower to keep vapor blower temperature down.
- Cleaned sediment tanks.
- Changed air filter on vapor blower.

As of August 29, 2001, a total of 23,242,900 gallons of groundwater were recovered and treated by the system.

Please feel free to contact me at (518) 951-2229 should you have any questions regarding the operation of the treatment system.

Sincerely,

Keith A. Decker
Project Manager

Attachments

L:\work\32413\docs\8-01report.doc

Table 1
Summary of Influent and Effluent Data

NOW Corporation Site
Town of Clinton, New York

Effluent Parameters	08/15/01 Influent	08/15/01 Effluent	Treatment TW-1	Treatment TW-2A	Treatment TW-3
Flow (Ave. Daily)	*NA*	16,139			
pH	6.8	7.1			
Vinyl Chloride	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethene	**18**	ND	**12**	**32**	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND
1,1-Dichloroethane	**220**	ND	**140**	**380**	**48**
cis-1,2-Dichloroethene	**10**	ND	**7**	**20**	ND
1,1,1-Trichloroethane	**1100**	ND	**15**	**2500**	**120**
Benzene	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
Trichloroethene	**330**	ND	**70**	**680**	**9**
Toluene	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND
1,2- and 1,4-Xylenes	ND	ND	ND	ND	ND
1,3-Xylene	ND	ND	ND	ND	ND
Aluminum, Total	ND	ND		2000	ug/L
Arsenic, Total	ND	ND		50	ug/L
Barium, Total	**100**	**90**		2000	ug/L
Chromium	ND	ND		100	ug/L
Copper	ND	ND		24	ug/L
Iron	ND	ND		600	ug/L
Manganese	**150**	ND		600	ug/L
Mercury	ND	ND		0.8	ug/L
Nickel	ND	ND		200	ug/L
Zinc	ND	ND		150	ug/L
Oil and Grease	ND	ND		15	mg/L
Cyanide	ND	ND		10	ug/L
TDS	**298**	**290**		1000	mg/L
TSS	ND	ND		50	mg/L

Notes:

1) Positive results are presented in ***bold*** *typeface.*

2) ND indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) " ***J*** *" indicates an estimated concentration below the method detection limit.*

5) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

* Average daily flow as measured July 27, 2001 to August 29, 2001.

Table 2
Summary of August 2001 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		8/8/01	8/15/01	8/29/01	units
TW-1					
	Pumping Rate	4	4	4	GPM
	Water Level Above Transducer	NW	NW	NW	feet
	Flow Meter Reading	8,089,100	8,130,100	8,209,300	gallons
	Pump Pressure	24	25	26	psi
TW-2A					
	Pumping Rate	8	8	9	GPM
	Water Level Above Transducer	NW	NW	NW	feet
	Flow Meter Reading	12,902,800	12,987,000	13,153,600	gallons
	Pump Pressure	30	32	20	psi
TW-3					
	Pumping Rate	3	5	3	GPM
	Water Level Above Transducer	NW	NW	NW	feet
	Flow Meter Reading	5,166,100	5,196,300	5,248,700	gallons
	Pump Pressure	27	11	35	psi
Air Stripper					
	Stripper Blower Pressure	17	18	17	inches H_2O
	Air Temperature in Stripper	56	52	54	°F
	Pressure Gauge - Left Leg	1	1.02	1	inches H_2O
	Pressure Gauge - Right Leg	0.06	0.06	0.03	inches H_2O
	Pressure/Vacuum on the Stripper			0	inches H_2O
Sand Filter					
	Influent Pressure	11	11	12	psi
	Effluent Pressure	5	5	5	psi
	Differential Pressure Across Filter	6	6	7	psi
Effluent Flow					
	Total System Meter Reading	22,914,900	23,029,400	23,242,900	gallons
	IW-1 Flow Meter Reading	1,259,827	1,259,827	1,259,830	gallons
	IW-2 Flow Meter Reading	1,748,748	1,748,748	1,748,748	gallons
Vapor Extraction System					
	Vapor Blower Vacuum	11.0	12.0	8.5	inches Hg
	Vacuum before Filter with Dilution Air	10.0	11.0	7.5	inches Hg
	Vacuum on Knock-out Pot	15.0	15.0	11.0	inches Hg
	Blower Inlet Temperature	78	70	72	°F
	Blower Outlet Temperature	208	238	192	°F
	Pressure After Blower	34	26	48	psi
	Heat Exchanger Outlet Temperature	90	82	75	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
Summary of August 2001 Water Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	M.P. Elevation	8/15/01 Depth to Water (ft b.m.p.)	8/15/01 GW Elevation	8/29/01 Depth to Water (ft b.m.p.)	8/29/01 GW Elevation
MW-1	289.50	23.49	266.01	25.57	263.93
MW-2	332.51	34.73	297.78	35.66	296.85
MW-3	312.83	34.07	278.76	35.15	277.68
MW-3S	312.51	29.01	283.50	29.99	282.52
MW-4	298.29	30.55	267.74	32.32	265.97
MW-4D	298.16	30.36	267.80	32.19	265.97
MW-5	285.48	21.00	264.48	21.45	264.03
MW-6S	287.90	22.64	265.26	24.1	263.80
MW-6D	287.25	21.06	266.19	23.06	264.19
MW-7S	292.12	31.77	260.35	31.69	260.43
MW-7D	292.54	77.61	214.93	77.49	215.05
MW-8	283.65	N/A	#VALUE!	*N/A*	*N/A*
MW-9	275.37	N/A	#VALUE!	*N/A*	*N/A*
MW-10	280.92	N/A	*N/A*	*N/A*	*N/A*
MW-11	283.72	N/A	#VALUE!	*N/A*	*N/A*
OW-1	307.75	62.83	244.92	63.00	244.75
OW-2	305.96	74.24	231.72	74.58	231.38
OW-3	307.35	N/A	#VALUE!	*N/A*	*N/A*
OW-4	308.30	N/A	#VALUE!	*N/A*	*N/A*
OW-5	307.41	N/A	#VALUE!	*N/A*	*N/A*
OW-6	294.81	14.11	280.70	19.32	275.49
IW-1	312.46	9.39	303.07	9.29	303.17
IW-2	306.56	8.99	297.57	7.55	299.01
TW-2	290.52	N/A	#VALUE!	N/A	#VALUE!

Note: N/A indicates Not Available.

Table 4
August 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE 08/15/01		TW-2AVE 08/15/01		VE-1VE 08/15/01		VE-2VE 08/15/01		ST-1 08/15/01		SVE-EXH 08/15/01		ST-4 08/15/01	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	**7.5**	25
Chloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	**7.9**	25
1,1-Dichloroethene	**18.0**	25	**20**	25	**19**	25	**19**	25	**21**	25	**123**	25	**116**	25
1,1-Dichloroethane	**63.0**	25	**72**	25	**66**	25	**67**	25	**71**	25	**695**	25	**518**	25
cis-1,2-Dichloroethene	**11.0**	25	**12**	25	**11**	25	**11**	25	**12**	25	**56**	25	**9.7**	25
1,1,1-Trichloroethane	**355.0**	25	**404**	25	**378**	25	**387**	25	**405**	25	**4,190**	25	**463**	25
1,2-Dichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	**10**	25
Benzene	**4.2**	25	ND	25	**3.4**	25	**3.2**	25	ND	25	ND	25	ND	25
Trichloroethene	**262**	25	**302**	25	**281**	25	**278**	25	**300**	25	**28**	25	**13**	25
Toluene	**18**	25	**6**	25	**14**	25	**13**	25	**6.4**	25	**12**	25	**28**	25
1,1,2-Trichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Tetrachloroethene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Chlorobenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Ethylbenzene	**21**	25	ND	25	**16**	25	**13**	25	ND	25	**22**	25	**37**	25
p&m -Xylene	**51**	25	**12**	25	**38**	25	**33**	25	**11**	25	**61**	25	**85**	25
o-Xylene	**27**	25	**5.3**	25	**20**	25	**18**	25	**4.7**	25	**33**	25	**45**	25

Notes:

1) All results are reported in ppbv .

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Legend:

TW-1VE=Well TW-1 Vapor Extrac ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)

TW-2AVE=Well TW-2A Vapor Ex SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. Drum Carbon Adsorbers

VE-1VE=Well VE-1 Vapor Extract ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)

VE-2VE=Well VE-2 Vapor Extraction

Table 5
August 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	Post Air Stripper (PAS) 08/15/01 Results	RL
Vinyl Chloride	**ND**	25
Chloroethane	**ND**	25
1,1-Dichloroethene	**19**	25
1,1-Dichloroethane	**267**	25
cis-1,2-Dichloroethene	**12**	25
1,1,1-Trichloroethane	**995**	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	**227**	25
Toluene	**5.6**	25
1,1,2-Trichloroethane	ND	25
Tetrachloroethene	ND	25
Chlorobenzene	ND	25
Ethylbenzene	ND	25
p&m -Xylene	**8.3**	25
o-Xylene	ND	25

Notes:
1) All results are reported in ppbv .
2) Positive results are presented in ***bold*** *typeface.*
3) ND indicates Not Detected (Below RL).
4) RL = Reporting Limit

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LABORATORY REPORT

for

Earth Tech
12 Metro Park Road
Albany, NY 12205

Attention: Keith Decker

PJ:32413.10400

Report date: 09/04/01
Number of samples analyzed: 6
AES Project ID: 010815BL
Invoice #: 231467

ELAP ID#: 10709

AIHA ID#: 100307

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 010815BL01
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-Z-16	08/17/01
Total Dissolved Solids	EPA-160.1	290	mg/l	LS-Y-47	08/16/01
Oil & Grease	EPA-1664	<1	mg/l	JK-C-43	08/23/01
Cyanide,Total	EPA-335.3	<0.01	mg/l	PL-G	08/16/01
Zinc	EPA-200.7	<0.01	mg/l	SM-I-4B-85	08/23/01
Aluminum	EPA-200.7	<0.1	mg/l	SM-I-4B-85	08/23/01
Arsenic	EPA-200.7	<0.005	mg/l	SM-I-4B-85	08/23/01
Barium	EPA-200.7	0.09	mg/l	SM-I-4B-85	08/23/01
Copper	EPA-200.7	<0.01	mg/l	SM-I-4B-85	08/23/01
Iron	EPA-200.7	<0.05	mg/l	SM-I-4B-85	08/23/01
Manganese	EPA-200.7	<0.02	mg/l	SM-I-4B-85	08/23/01
Mercury	EPA-245.1	<0.0004	mg/l	SM-FAN-50	08/27/01
Nickel	EPA-200.7	<0.05	mg/l	SM-I-4B-85	08/23/01
Benzene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Chlorobenzene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Chloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,2-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
cis-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
trans-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 010815BL01
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Ethylbenzene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Tetrachloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Toluene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1,1-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1,2-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Trichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Vinyl Chloride	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
m,p-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
o-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 010815BL02
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-Z-4	08/17/01
Total Dissolved Solids	EPA-160.1	298	mg/l	LS-Y-47	08/16/01
Oil & Grease	EPA-1664	<1	mg/l	JK-C-43	08/23/01
Cyanide,Total	EPA-335.3	<0.01	mg/l	PL-G	08/16/01
Zinc	EPA-200.7	<0.01	mg/l	SM-I-4B-85	08/23/01
Aluminum	EPA-200.7	<0.1	mg/l	SM-I-4B-85	08/23/01
Arsenic	EPA-200.7	<0.005	mg/l	SM-I-4B-85	08/23/01
Barium	EPA-200.7	0.10	mg/l	SM-I-4B-85	08/23/01
Copper	EPA-200.7	<0.01	mg/l	SM-I-4B-85	08/23/01
Iron	EPA-200.7	<0.05	mg/l	SM-I-4B-85	08/23/01
Manganese	EPA-200.7	0.15	mg/l	SM-I-4B-85	08/23/01
Mercury	EPA-245.1	<0.0004	mg/l	SM-FAN-50	08/27/01
Nickel	EPA-200.7	<0.05	mg/l	SM-I-4B-85	08/23/01
Benzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethane	EPA-624	220	ug/l	MG-SAT-E9	08/28/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
cis-1,2-Dichloroethene	EPA-624	10	ug/l	MG-SAT-E9	08/28/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 010815BL02
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-624	18	ug/l	MG-SAT-E9	08/28/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1,1-Trichloroethane	EPA-624	1100	ug/l	MG-SAT-E9	08/28/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Trichloroethene	EPA-624	330	ug/l	MG-SAT-E9	08/28/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-1
AES sample #: 010815BL03
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethane	EPA-624	140	ug/l	MG-SAT-E9	08/28/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
cis-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethene	EPA-624	12	ug/l	MG-SAT-E9	08/28/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1,1-Trichloroethane	EPA-624	15	ug/l	MG-SAT-E9	08/28/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Trichloroethene	EPA-624	70	ug/l	MG-SAT-E9	08/28/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 010815BL04
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethane	EPA-624	380	ug/l	MG-SAT-E9	08/28/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
cis-1,2-Dichloroethene	EPA-624	20	ug/l	MG-SAT-E9	08/28/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethene	EPA-624	32	ug/l	MG-SAT-E9	08/28/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1,1-Trichloroethane	EPA-624	2500	ug/l	MG-SAT-E9	08/28/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Trichloroethene	EPA-624	680	ug/l	MG-SAT-E9	08/28/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-3
AES sample #: 010815BL05
Samples taken by: S. Gray
MATRIX: Ground Water
Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Chloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethane	EPA-624	48	ug/l	MG-SAT-E9	08/28/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
cis-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
1,1,1-Trichloroethane	EPA-624	120	ug/l	MG-SAT-E9	08/28/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
Trichloroethene	EPA-624	9	ug/l	MG-SAT-E9	08/28/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E9	08/28/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E9	08/28/01

Adirondack Environmental Services, Inc.
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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 010815BL06 Samples taken by: S. Gray
MATRIX: Water

Date Sampled: 08/15/01
Date sample received: 08/15/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Chlorobenzene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Chloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,2-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
cis-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
trans-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Ethylbenzene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Tetrachloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Toluene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1,1-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
1,1,2-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Trichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
Vinyl Chloride	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
m,p-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01
o-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E9	08/28/01

APPROVED BY:
Report date: 09/04/01

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Chain of Custody Record

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
32413.10400	EARTH TECH / Now Corp.

Sample Custodian: (Signature) Steve Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	Metals, ZN, AL AS, BA CU	METALS CU, FE MN, HG, NI	TDS, TSS	O+G	Cyanide	Matrix: Sample Type: GW	Sample Container: 40 mL
1	EFF 08-01	8-15-01	12:00	X				X						X	3
2	010815 B-01		12:15						X	X					1
3			12:20								X				1
4			12:05									X			1
5			12:10										X		1
6	INF 08-01		12:30					X							3
7	B1A2		12:40						X	X					1
8			12:35								X				1
9			12:50									X			1
10			12:45										X		1
11	TW -1 B103		1:00					X							2
12	TW-2A B104		1:05					X							2
13	TW- 3 B105		1:10					X							2
14	Trip Blank B106							X							1
15															
16															
17															
18															

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	8-15-01 3:30				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: Keith Decker
12 Metro Park Rd.
Albany NY 12205

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

08/23/2001

Earth Tech
ATTN: Keith Decker
12 Metro Park Road
Albany, NY 12205

Project Reference: NOW Corp.; 32413.10400
Lab Number: A1081602-01/08

Enclosed are results for sample(s) received 8/16/01 by Advanced Technology Laboratories, Inc. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Keith Decker on 8/23/01.

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,

for Mark Johnson
Air Toxics Operations Manager
mark@atlglobal.com

Enclosures

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

A1081602

Chain of Custody Record

EARTH TECH
A tyco INTERNATIONAL LTD COMPANY

Custody Seal # | Rust E&I Cooler #

Project Number: 32413.10400
Project Name/Client: EARTH TECH NOW CORP
Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: VOLITALE ORGANICS (ANALYTLE LIST PER 2/12/98 BID FORM)	Matrix: Sample Type: AIR	Sample Container: TEDLAR BAGS
1	TW-1VE 08/01	8-15-01	1:50	N/A	N/A			X	X	2
2	VE-1VE 08/01		1:45							
3	VE-2VE 08/01		1:40							
4	TW-2AVE 08/01		1:35							
5	ST 08/01		1:30							
6	PAS 08/01		1:20							
7	SVE-EXH 08/01		1:15							
8	ST-4 08/01		1:10							
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	8-15-01 13:30				
Relinquished by: (Signature) Fed Ex	Date / Time 8-16-01 13:50	Received by: (Signature) ATL	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: KEITH DECKER
EARTH TECK
12 METRO PARK RD
ALBANY N.Y.
12205

Remarks: SEND ENOUGH BAGS BACK WITH COOLER FOR NEXT SAMP. EVENT
Federal Express Airbill No.:
Lab: C/O ROGER GRAY

Check Delivery Method:
- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

Rev. 10/98 | White Copy - Lab | Yellow Copy - File | Pink Copy - Client | F514/Earth.Sci

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 08/16/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1081602-01		A1081602-02		A1081602-03		A1081602-04		A1081602-05	
Client Sample I.D.:		TW-1VE 08/01		VE-1VE 08/01		VE-2VE 08/01		TW-2AVE 08/01		ST 08/01	
Date Sampled:		08/15/01		08/15/01		08/15/01		08/15/01		08/15/01	
Date Analyzed:		08/16/01		08/16/01		08/16/01		08/16/01		08/16/01	
QC Batch No:		010816MS2A1		010816MS2A1		010816MS2A1		010816MS2A1		010816MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		3.0		3.0		3.0		3.0		3.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0
Chloroethane	1.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0
1,1-Dichloroethene	1.0	18	3.0	19	3.0	19	3.0	20	3.0	21	3.0
1,1-Dichloroethane	1.0	63	3.0	66	3.0	67	3.0	72	3.0	71	3.0
c-1,2-Dichloroethene	1.0	11	3.0	11	3.0	11	3.0	12	3.0	12	3.0
1,1,1-Trichloroethane	1.0	355	3.0	378	3.0	387	3.0	404	3.0	405	3.0
Benzene	1.0	4.2	3.0	3.4	3.0	3.2	3.0	ND	3.0	ND	3.0
1,2-Dichloroethane	1.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0
Trichloroethene	1.0	262	3.0	281	3.0	278	3.0	302	3.0	300	3.0
Toluene	1.0	18	3.0	14	3.0	13	3.0	6.0	3.0	6.4	3.0
1,1,2-Trichloroethane	1.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0
Tetrachloroethene	1.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0
Chlorobenzene	1.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0	ND	3.0
Ethylbenzene	1.0	21	3.0	16	3.0	13	3.0	ND	3.0	ND	3.0
p,&m-Xylene	1.0	51	3.0	38	3.0	33	3.0	12	3.0	11	3.0
o-Xylene	1.0	27	3.0	20	3.0	18	3.0	5.3	3.0	4.7	3.0

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: for Mark Johnson
Air Toxics Operations Manager

Date 08/23/01

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 08/16/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1081602-06		A1081602-07		A1081602-08					
Client Sample I.D.:		PAS 08/01		SVE-EXH 08/01		ST-4 08/01					
Date Sampled:		08/15/01		08/15/01		08/15/01					
Date Analyzed:		08/16/01		08/16/01		08/16/01					
QC Batch No:		010816MS2A1		010816MS2A1		010816MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		5.0		20		4.0					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	5.0	ND	20	7.5	4.0				
Chloroethane	1.0	ND	5.0	ND	20	7.9	4.0				
1,1-Dichloroethene	1.0	19	5.0	123	20	116	4.0				
1,1-Dichloroethane	1.0	267	5.0	695	20	518	4.0				
c-1,2-Dichloroethene	1.0	12	5.0	56	20	9.7	4.0				
1,1,1-Trichloroethane	1.0	995	5.0	4,190	20	463	4.0				
Benzene	1.0	ND	5.0	ND	20	10	4.0				
1,2-Dichloroethane	1.0	ND	5.0	ND	20	ND	4.0				
Trichloroethene	1.0	227	5.0	28	20	13	4.0				
Toluene	1.0	5.6	5.0	ND	20	28	4.0				
1,1,2-Trichloroethane	1.0	ND	5.0	ND	20	ND	4.0				
Tetrachloroethene	1.0	ND	5.0	ND	20	ND	4.0				
Chlorobenzene	1.0	ND	5.0	ND	20	ND	4.0				
Ethylbenzene	1.0	ND	5.0	22	20	37	4.0				
p,&m-Xylene	1.0	8.3	5.0	61	20	85	4.0				
o-Xylene	1.0	ND	5.0	33	20	45	4.0				

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: for Mark Johnson
Air Toxics Operations Manager

Date 08/23/01

The cover letter is an integral part of this analytical report

Spike Recovery and RPD Summary Report - AIR (010816MS2A1)

Method : D:\GCMSB\METHODS\TO151005.M (RTE Integrator)
Title : EPA TO-15(10/05/00),GC Column:RTxVolatiles 0.32mm
Last Update : Wed Aug 08 10:43:29 2001
Response via : Initial Calibration

Method Blank: 16AUG005.D

	Laboratory Control Sample	Laboratory Control Sample Duplicate
File ID :	16AUG003.D	16AUG004.D
Sample :	LCS	LCSD
Acq Time:	16 Aug 2001 11:44	16 Aug 2001 12:17

Compound	Blank Conc	Spike Added	LCS Res	LCSD Res	LCS %Rec	LCSD %Rec	RPD	QC Limits RPD	QC Limits %Rec
1,1-Dichloroethene	0.0	10	10.2	9.9	102	99	3.7	30	70-130
Methylene Chloride	0.0	10	11.1	11.0	111	110	0.8	30	70-130
Trichloroethene	0.0	10	8.8	8.8	88	88	0.5	30	70-130
Toluene	0.0	10	10.0	9.9	100	99	1.0	30	70-130
1,1,2,2-Tetrachloro	0.0	10	11.1	10.8	111	108	2.4	30	70-130

- Fails Limit Check

TO151005.M Fri Aug 17 10:10:26 2001 GCMSB

Operation, Maintenance and Monitoring Report
September 2001

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-10

Prepared for:

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

Prepared by:

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

40 British American Boulevard, Latham, New York 12110

August 2, 2002

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – September 2001

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Earth Tech is pleased to provide you with a monthly summary report for the operation, monitoring and maintenance of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York.

This report covers the operation, maintenance and monitoring of the vapor extraction system and the groundwater pump and treatment system for the period August 29, 2001 to October 1, 2001. In summary, approximately 353,500 gallons of water were treated during the reporting period.

Several of the electronic components of the groundwater extraction system are still not operating properly due to damage sustained from previous electrical storm lightning strikes. These systems give erroneous readings, but do not hinder the ability of the treatment system to function. The system flow levels have been reduced to minimize the possibility of cavitation. These systems will be further evaluated and repaired or replaced upon the approval of a new budget for this project.

Discharge from the treatment system averaged approximately 10,712 gallons per day. Approximately 100 percent of the treated effluent was discharged to Crum Elbow Creek and 0 percent was injected, via wells IW-1 and IW-2, into the bedrock aquifer. These readings may not be accurate, due to the fact it is uncommon for these injection wells to not be taking some of the flow.

Table 1 summarizes influent and effluent data for samples collected on October 1, 2001. All of the effluent treatment requirements were met. A copy of the laboratory report is attached.

Earth Tech made four site visits to conduct the required monthly maintenance and sampling. Table 2 summarizes the operation and maintenance data. Table 3 summarizes monitoring well water level data. Monthly air sampling also occurred on October 1, 2001. Table 4 summarizes the groundwater treatment system air sampling data and Table 5 summarizes the post air stripper data. Copies of the laboratory reports are attached.

Earth Tech personnel performed the following maintenance items in addition to routine monitoring of system temperatures, pressures, flow measurements, monitoring well water levels, air sampling, etc.:

- Changed oil in the vapor blower motor.
- Back-flushed sand filter (two events).
- Took heat exchanger fan apart and tightened fan motor.
- Adjusted make-up air on blower to keep vapor blower temperature down.
- Cleaned sediment tanks.
- Changed air filter on vapor blower.
- Cleaned air intake screen.
- Took apart and cleaned total system flow meter.
- Changed carbon drums on vapor blower system.
- Changed pump float in sump, system still shutting down, changed pump.
- Cleaned air stripper.

As of October 1, 2001, a total of 23,596,400 gallons of groundwater were recovered and treated by the system.

Please feel free to contact me at (518) 951-2229 should you have any questions regarding the operation of the treatment system.

Sincerely,

Keith A. Decker
Project Manager

Attachments

L:\work\32413\docs\9-01report.doc

Table 1
Summary of Influent and Effluent Data

NOW Corporation Site
Town of Clinton, New York

Effluent Parameters	10/01/01 Influent	10/01/01 Effluent	Treatment TW-1	Treatment TW-2A	Treatment TW-3
Flow (average Daily)	*NA*	10,712			
pH	NA	NA			
Vinyl Chloride	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethene	**15**	ND	**16**	**31**	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND
1,1-Dichloroethane	**170**	ND	**180**	**340**	**51**
cis-1,2-Dichloroethene	**11**	ND	**7**	**26**	ND
1,1,1-Trichloroethane	ND	ND	**34**	**1400**	**99**
Benzene	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
Trichloroethene	**300**	ND	**120**	**740**	**10**
Toluene	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND
1,2- and 1,4-Xylenes	ND	ND	ND	ND	ND
1,3-Xylene	ND	ND	ND	ND	ND
Aluminum, Total	ND	ND		2000	ug/L
Arsenic, Total	ND	ND		50	ug/L
Barium, Total	**100**	**100**		2000	ug/L
Chromium	ND	ND		100	ug/L
Copper	ND	ND		24	ug/L
Iron	**110**	ND		600	ug/L
Manganese	**470**	ND		600	ug/L
Mercury	ND	ND		0.8	ug/L
Nickel	ND	ND		200	ug/L
Zinc	ND	ND		150	ug/L
Oil and Grease	ND	ND		15	mg/L
Cyanide	ND	ND		10	ug/L
TDS	**410**	**288**		1000	mg/L
TSS	ND	ND		50	mg/L

Notes:

1) Positive results are presented in ***bold*** *typeface.*

2) ND indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) " ***J*** *" indicates an estimated concentration below the method detection limit.*

5) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

* Average daily flow as measured August 29, 2001 to October 1, 2001.

Table 2
Summary of September 2001 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		9/11/01	10/1/01	units
TW-1				
	Pumping Rate	4	6	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	8,283,700	8,353,400	gallons
	Pump Pressure	26	66	psi
TW-2A				
	Pumping Rate	9	11	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	13,299,500	13,427,900	gallons
	Pump Pressure	25	50	psi
TW-3				
	Pumping Rate	2	4	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	5,296,600	5,341,700	gallons
	Pump Pressure	10	70	psi
Air Stripper				
	Stripper Blower Pressure	19	18	inches H_2O
	Air Temperature in Stripper	0	49	°F
	Pressure Gauge - Left Leg	52	1	inches H_2O
	Pressure Gauge - Right Leg	0.06	0.04	inches H_2O
	Pressure/Vacuum on the Stripper	1.1	0	inches H_2O
Sand Filter				
	Influent Pressure	13	18	psi
	Effluent Pressure	6	9	psi
	Differential Pressure Across Filter	7	9	psi
Effluent Flow				
	Total System Meter Reading	23,432,000	23,596,400	gallons
	IW-1 Flow Meter Reading	1,259,863	1,259,937	gallons
	IW-2 Flow Meter Reading	1,748,748	1,748,748	gallons
Vapor Extraction System				
	Vapor Blower Vacuum	8.0	10.0	inches Hg
	Vacuum before Filter with Dilution Air	7.5	8.0	inches Hg
	Vacuum on Knock-out Pot	10.5	11.5	inches Hg
	Blower Inlet Temperature	72	64	°F
	Blower Outlet Temperature	186	192	°F
	Pressure After Blower	54	40	psi
	Heat Exchanger Outlet Temperature	75	66	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
Summary of September 2001 Water Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	M.P. Elevation	9/11/01 Depth to Water (ft b.m.p.)	9/11/01 GW Elevation	10/1/01 Depth to Water (ft b.m.p.)	10/1/01 GW Elevation
MW-1	289.50	27.35	262.15	22.06	267.44
MW-2	332.51	36.60	295.91	38.04	294.47
MW-3	312.83	36.67	276.16	35.68	277.15
MW-3S	312.51	30.68	281.83	30.99	281.52
MW-4	298.29	33.8	264.49	30.06	268.23
MW-4D	298.16	33.62	264.54	29.91	268.25
MW-5	285.48	21.45	264.03	20.16	265.32
MW-6S	287.90	24.15	263.75	21.09	266.81
MW-6D	287.25	24.87	262.38	20.08	267.17
MW-7S	292.12	31.83	260.29	23.35	268.77
MW-7D	292.54	77.55	214.99	41.65	250.89
MW-8	283.65	N/A	#VALUE!	*N/A*	*N/A*
MW-9	275.37	N/A	#VALUE!	*N/A*	*N/A*
MW-10	280.92	N/A	*N/A*	*N/A*	*N/A*
MW-11	283.72	N/A	#VALUE!	*N/A*	*N/A*
OW-1	307.75	62.90	244.85	43.75	264.00
OW-2	305.96	75.42	230.54	64.13	241.83
OW-3	307.35	N/A	#VALUE!	*N/A*	*N/A*
OW-4	308.30	N/A	#VALUE!	*N/A*	*N/A*
OW-5	307.41	N/A	#VALUE!	*N/A*	*N/A*
OW-6	294.81	24.00	270.81	16.69	278.12
IW-1	312.46	8.73	303.73	13.00	299.46
IW-2	306.56	4.76	301.80	16.92	289.64
TW-2	290.52	N/A	#VALUE!	N/A	#VALUE!

Note: N/A indicates Not Available.

Table 4
September 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE 10/01/01		TW-2AVE 10/01/01		VE-1VE 10/01/01		VE-2VE 10/01/01		ST-1 10/01/01		SVE-EXH 10/01/01		ST-4 10/01/01	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	25	ND	25	ND	25	ND	25	ND	25	**2.6**	25	**2.3**	25
Chloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	**3.4**	25	**4.3**	25
1,1-Dichloroethene	**6.7**	25	**3**	25	**3.1**	25	**3.3**	25	**2.7**	25	ND	25	ND	25
1,1-Dichloroethane	**14.0**	25	**12**	25	**12**	25	**13**	25	**11**	25	ND	25	ND	25
cis-1,2-Dichloroethene	**4.4**	25	**4.1**	25	**4.7**	25	**5**	25	**3.9**	25	ND	25	ND	25
1,1,1-Trichloroethane	**85.0**	25	**73**	25	**76**	25	**78**	25	**68**	25	ND	25	ND	25
1,2-Dichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Benzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Trichloroethene	**140**	25	**130**	25	**144**	25	**146**	25	**121**	25	ND	25	ND	25
Toluene	**24**	25	**21**	25	**20**	25	**23**	25	**19**	25	**12**	25	**16**	25
1,1,2-Trichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Tetrachloroethene	**1.6**	25	**1.1**	25	**1.1**	25	**1.4**	25	ND	25	ND	25	**1.5**	25
Chlorobenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Ethylbenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
p&m -Xylene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
o-Xylene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25

Notes:

1) All results are reported in ppbv.

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Legend:

TW-1VE=Well TW-1 Vapor Extraction
TW-2AVE=Well TW-2A Vapor Extraction
VE-1VE=Well VE-1 Vapor Extraction
VE-2VE=Well VE-2 Vapor Extraction
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)

Table 5
September 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	Post Air Stripper (PAS) 10/01/01 Results	RL
Vinyl Chloride	ND	25
Chloroethane	ND	25
1,1-Dichloroethene	**13**	25
1,1-Dichloroethane	**163**	25
cis-1,2-Dichloroethene	**9.4**	25
1,1,1-Trichloroethane	**443**	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	**174**	25
Toluene	**11**	25
1,1,2-Trichloroethane	ND	25
Tetrachloroethene	ND	25
Chlorobenzene	ND	25
Ethylbenzene	ND	25
p&m -Xylene	ND	25
o-Xylene	ND	25

Notes:

1) All results are reported in ppbv .

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

OCT 16 2001

LABORATORY REPORT

for

Earth Tech
12 Metro Park Road
Albany, NY 12205

Attention: Keith Decker

PJ:32413.10400

Report date: 10/15/01
Number of samples analyzed: 6
AES Project ID: 011001AE
Invoice #: 233308

ELAP ID#: 10709

AIHA ID#: 100307

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011001AB01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-Z-48	10/05/01
Total Dissolved Solids	SW-846	288	mg/l	LS-Z-49	10/09/01
Oil & Grease	EPA-1664	<1	mg/l	JK-D-13	10/12/01
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-H	10/04/01
Zinc	EPA-6010	<0.01	mg/l	KH-I-4C-9	10/10/01
Aluminum	EPA-6010	<0.1	mg/l	KH-I-4C-9	10/10/01
Arsenic	EPA-6010	<0.005	mg/l	KH-I-4C-9	10/10/01
Barium	EPA-6010	0.10	mg/l	KH-I-4C-9	10/10/01
Copper	EPA-6010	<0.01	mg/l	KH-I-4C-9	10/10/01
Iron	EPA-6010	<0.05	mg/l	KH-I-4C-9	10/10/01
Manganese	EPA-6010	<0.02	mg/l	KH-I-4C-9	10/10/01
Mercury	EPA-7471	<0.0004	mg/l	SM-FAO-22	10/03/01
Nickel	EPA-6010	<0.05	mg/l	KH-I-4C-9	10/10/01
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011001AB01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 011001AB02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-Z-48	10/05/01
Total Dissolved Solids	SW-846	410	mg/l	LS-Z-49	10/09/01
Oil & Grease	EPA-9070	<1	mg/l	JK-D-13	10/12/01
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-H	10/04/01
Zinc	EPA-6010	<0.01	mg/l	KH-I-4C-9	10/10/01
Aluminum	EPA-6010	<0.1	mg/l	KH-I-4C-9	10/10/01
Arsenic	EPA-6010	<0.005	mg/l	KH-I-4C-9	10/10/01
Barium	EPA-6010	0.10	mg/l	KH-I-4C-9	10/10/01
Copper	EPA-6010	<0.01	mg/l	KH-I-4C-9	10/10/01
Iron	EPA-6010	0.11	mg/l	KH-I-4C-9	10/10/01
Manganese	EPA-6010	0.47	mg/l	KH-I-4C-9	10/10/01
Mercury	EPA-7471	<0.0004	mg/l	SM-FAO-22	10/03/01
Nickel	EPA-6010	<0.05	mg/l	KH-I-4C-9	10/10/01
Benzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethane	EPA-8260	170	ug/l	MG-SAT-E12	10/03/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
cis-1,2-Dichloroethene	EPA-8260	11	ug/l	MG-SAT-E12	10/03/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 011001AB02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-8260	15	ug/l	MG-SAT-E12	10/03/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Trichloroethene	EPA-8260	300	ug/l	MG-SAT-E12	10/03/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-1
AES sample #: 011001AB03
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethane	EPA-8260	180	ug/l	MG-SAT-E12	10/03/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
cis-1,2-Dichloroethene	EPA-8260	7.0	ug/l	MG-SAT-E12	10/03/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethene	EPA-8260	16	ug/l	MG-SAT-E12	10/03/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1,1-Trichloroethane	EPA-8260	34	ug/l	MG-SAT-E12	10/03/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Trichloroethene	EPA-8260	120	ug/l	MG-SAT-E12	10/03/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 011001AB04
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethane	EPA-8260	340	ug/l	MG-SAT-E12	10/03/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
cis-1,2-Dichloroethene	EPA-8260	26	ug/l	MG-SAT-E12	10/03/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethene	EPA-8260	31	ug/l	MG-SAT-E12	10/03/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1,1-Trichloroethane	EPA-8260	1400	ug/l	MG-SAT-E12	10/03/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Trichloroethene	EPA-8260	740	ug/l	MG-SAT-E12	10/03/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01

Adirondack Environmental Services, Inc.
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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-3
AES sample #: 011001AB05
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethane	EPA-8260	51	ug/l	MG-SAT-E12	10/03/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
1,1,1-Trichloroethane	EPA-8260	99	ug/l	MG-SAT-E12	10/03/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
Trichloroethene	EPA-8260	10	ug/l	MG-SAT-E12	10/03/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E12	10/03/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E12	10/03/01

Adirondack Environmental Services, Inc.
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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 011001AB06 Samples taken by: R. Gray
MATRIX: Water

Date Sampled: 10/01/01
Date sample received: 10/01/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E12	10/03/01

APPROVED BY:
Report date: 10/15/01

Chain of Custody Record

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

011001 AB

Custody Seal # | Rust E&I Cooler #

Project Number: 32413.10400
Project Name/Client: EARTH TECH NOW CORP.
Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: ZN, AL, AS, BA, CN	METALS: CU, FE, MN, NI	TDS, TSS	O+G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40mL.
1	EFF 10/01	10-1-01		X				X						X	3
2			2:05						X	X					1
3	AB01		2:10								X				1
4			2:15									X			1
5			2:00										X		1
6	INF 10/01		2:20					X							3
7			2:35						X	X					1
8	AB02		2:30								X				1
9			2:25									X			1
10			2:00										X		1
11	TW-1 10/01		2:45			AB03		X							2
12	TW-2A 10/01		2:50			AB04		X							2
13	TW-3 10/01		2:55			AB05		X							2
14	TRIP BLANK					AB06		X							2 1
15															
16															
17															
18															

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	10-1-01 13:30		10/1/01 4:55		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: KEITH DECKER
EARTH TECH
12 METRO PARK RD.
ALBANY N.Y.
12205

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

Rev. 10/98 | White Copy - Lab | Yellow Copy - File | Pink Copy - Client | F514/Earth.Sci

OCT 18 2001

10/10/2001

Earth Tech
ATTN: Keith Decker
12 Metro Park Road
Albany, NY 12205

Project Reference: NOW Corp.; 32413.10400
Lab Number: A1100201-01/08

Enclosed are results for sample(s) received 10/02/01 by Advanced Technology Laboratories, Inc. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Keith Decker on 10/08/01.

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
Air Toxics Operations Manager
mark@atlglobal.com

Enclosures

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

A1100201

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
32413.10400	EARTH TECH NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: Volatile Organics (Analyte List per 2/12/98 Bid Form)	Matrix: Sample Type: Air	Matrix: Sample Container: 2 Tedlar Bags
1	TW-1VE 10/01	10-1-01	3:00	N/A	N/A			X	X	2
2	VE-1VE 10/01		3:05							
3	VE-2VE 10/01		3:10							
4	TW-2AVE10/01		3:15							
5	ST-1 10/01		3:20							
6	PAS 10/01		3:25							
7	SVE-EXH 10/01		3:30							
8	ST-4 10/01		3:35							
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	10-1-01 3:30				
Relinquished by: (Signature) Fed Ex	Date / Time 10-2-01 08:45	Received by: (Signature) ATL	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: KEITH DECKER
EARTH TECH.
12 METRO PARK RD
ALBANY N.Y.
12205

Remarks: SEND ENOUGH BAGS BACK WITH COOLER FOR NEXT SAMP. EVENT

Federal Express Airbill No.:

Lab: C/O ROGER GRAY

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 10/02/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1100201-01		A1100201-02		A1100201-03		A1100201-04		A1100201-05	
Client Sample I.D.:		TW-1VE 10/01		VE-1VE 10/01		VE-2VE 10/01		TW-2AVE 10/01		ST-1 10/01	
Date Sampled:		10/01/01		10/01/01		10/01/01		10/01/01		10/01/01	
Date Analyzed:		10/03/01		10/03/01		10/03/01		10/03/01		10/03/01	
QC Batch No:		011003MS2A1		011003MS2A1		011003MS2A1		011003MS2A1		011003MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	6.7	1.0	3.1	1.0	3.3	1.0	3.0	1.0	2.7	1.0
1,1-Dichloroethane	1.0	14	1.0	12	1.0	13	1.0	12	1.0	11	1.0
c-1,2-Dichloroethene	1.0	4.4	1.0	4.7	1.0	5.0	1.0	4.1	1.0	3.9	1.0
1,1,1-Trichloroethane	1.0	85	1.0	76	1.0	78	1.0	73	1.0	68	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	140	1.0	144	1.0	146	1.0	130	1.0	121	1.0
Toluene	1.0	24	1.0	20	1.0	23	1.0	21	1.0	19	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.6	1.0	1.1	1.0	1.4	1.0	1.1	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Mark Johnson
Air Toxics Operations Manager

Date 10-8-01

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 08/16/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1100201-06		A1100201-07		A1100201-08					
Client Sample I.D.:		PAS 10/01		SVE-EXH 10/01		ST-4 10/01					
Date Sampled:		10/01/01		10/01/01		10/01/01					
Date Analyzed:		10/03/01		10/03/01		10/03/01					
QC Batch No:		011003MS2A1		011003MS2A1		011003MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		3.0		1.0		1.0					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	3.0	2.6	1.0	2.3	1.0				
Chloroethane	1.0	ND	3.0	3.4	1.0	4.3	1.0				
1,1-Dichloroethene	1.0	13	3.0	ND	1.0	ND	1.0				
1,1-Dichloroethane	1.0	163	3.0	ND	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	9.4	3.0	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	443	3.0	ND	1.0	ND	1.0				
Benzene	1.0	ND	3.0	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	3.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	174	3.0	ND	1.0	ND	1.0				
Toluene	1.0	11	3.0	12	1.0	16	1.0				
1,1,2-Trichloroethane	1.0	ND	3.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	ND	3.0	ND	1.0	1.5	1.0				
Chlorobenzene	1.0	ND	3.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	3.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	ND	3.0	ND	1.0	ND	1.0				
o-Xylene	1.0	ND	3.0	ND	1.0	ND	1.0				

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 10-8-01
Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Spike Recovery and RPD Summary Report - AIR (011003MS2A1)

Method : D:\GCMSB\METHODS\TO151005.M (RTE Integrator)
Title : EPA TO-15(10/05/00),GC Column:RTxVolatiles 0.32mm
Last Update : Mon Sep 17 10:49:44 2001
Response via : Initial Calibration

Method Blank: 03OCT005.D

	Laboratory Control Sample	Laboratory Control Sample Duplicate
File ID :	03OCT003.D	03OCT004.D
Sample :	LCS	LCSD
Acq Time:	3 Oct 2001 11:49 am	3 Oct 2001 12:22 pm

Compound	Blank Conc	Spike Added	LCS Res	LCSD Res	LCS %Rec	LCSD %Rec	RPD	QC Limits RPD	QC Limits %Rec
1,1-Dichloroethene	0.0	10	9.4	9.2	94	92	3.0	30	70-130
Methylene Chloride	0.0	10	10.2	10.1	102	101	1.0	30	70-130
Trichloroethene	0.0	10	8.2	8.1	82	81	0.5	30	70-130
Toluene	0.0	10	9.0	9.0	90	90	0.0	30	70-130
1,1,2,2-Tetrachloro	0.0	10	9.6	9.5	96	95	1.7	30	70-130

- Fails Limit Check

TO151005.M Fri Oct 05 17:32:46 2001 GCMSB

Operation, Maintenance and Monitoring Report
October 2001

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-10

Prepared for:

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

Prepared by:

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

40 British American Boulevard, Latham, New York 12110

August 2, 2002

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – October 2001

Telephone
518.951.2200
Facsimile
518.951.2300

Dear Mr. Mahamooth:

Earth Tech is pleased to provide you with a monthly summary report for the operation, monitoring and maintenance of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York.

This report covers the operation, maintenance and monitoring of the vapor extraction system and the groundwater pump and treatment system for the period October 1, 2001 to October 31, 2001. In summary, approximately 280,000 gallons of water were treated during the reporting period.

Several of the electronic components of the groundwater extraction system are still not operating properly due to damage sustained from previous electrical storm lightning strikes. These systems give erroneous readings, but do not hinder the ability of the treatment system to function. The system flow levels have been reduced to minimize the possibility of cavitation. These systems will be further evaluated and repaired or replaced upon the approval of a new budget for this project.

System was shut down on October 31, 2001 upon arrival at the site. The alarms indicated that the system was shut down due to low air flow on the air stripper and the vapor blower motor. The air intake was cleaned and the system restarted.

Discharge from the treatment system averaged approximately 31,600 gallons per day. Approximately 99 percent of the treated effluent was discharged to Crum Elbow Creek and 1 percent was injected, via well IW-1 into the bedrock aquifer. These readings may not be accurate, due to the fact it is uncommon for these injection wells to accept more of the flow.

Table 1 summarizes influent and effluent data for samples collected on October 31, 2001. All of the effluent treatment requirements were met. A copy of the laboratory report is attached.

Earth Tech made four site visits to conduct the required monthly maintenance and sampling. Table 2 summarizes the operation and maintenance data. Table 3 summarizes monitoring well

water level data. Monthly air sampling also occurred on October 31, 2001. Table 4 summarizes the groundwater treatment system air sampling data and Table 5 summarizes the post air stripper data. Copies of the laboratory reports are attached.

Earth Tech personnel performed the following maintenance items in addition to routine monitoring of system temperatures, pressures, flow measurements, monitoring well water levels, air sampling, etc.:

- Changed oil in the vapor blower motor.
- Back-flushed sand filter.
- Cleaned air intake screen.

As of October 31, 2001, a total of 23,876,400 gallons of groundwater were recovered and treated by the system.

Please feel free to contact me at (518) 951-2229 should you have any questions regarding the operation of the treatment system.

Sincerely,

Keith A. Decker
Project Manager

Attachments

L:\work\32413\docs\10-01report.doc

Table 1
Summary of Influent and Effluent Data

NOW Corporation Site
Town of Clinton, New York

Effluent Parameters	10/31/01 Influent	10/31/01 Effluent	Treatment Requirements	(units)
Flow	*NA*	31,600 *	Monitor	gpd
pH	6.8	7.1	6.5 to 8.5	ndard units
Vinyl Chloride	ND	ND	2	ug/L
Chloroethane	ND	ND	5	ug/L
1,1-Dichloroethene	**20**	ND	0.5	ug/L
trans-1,2-Dichloroethene	ND	ND	5	ug/L
1,1-Dichloroethane	**230**	ND	5	ug/L
cis-1,2-Dichloroethene	**16**	ND	5	ug/L
1,1,1-Trichloroethane	**490**	ND	5	ug/L
Benzene	ND	ND	0.8	ug/L
1,2-Dichloroethane	ND	ND	1.6	ug/L
Trichloroethene	**390**	ND	5	ug/L
Toluene	ND	ND	5	ug/L
1,1,2-Trichloroethane	ND	ND	1.2	ug/L
Tetrachloroethene	ND	ND	1.4	ug/L
Chlorobenzene	ND	ND	5	ug/L
Ethylbenzene	ND	ND	5	ug/L
1,2- and 1,4-Xylenes	ND	ND	10	ug/L
1,3-Xylene	ND	ND	5	ug/L
Aluminum, Total	ND	ND	2000	ug/L
Arsenic, Total	ND	ND	50	ug/L
Barium, Total	**100**	**90**	2000	ug/L
Chromium	ND	ND	100	ug/L
Copper	ND	ND	24	ug/L
Iron	**200**	ND	600	ug/L
Manganese	**600**	ND	600	ug/L
Mercury	ND	ND	0.8	ug/L
Nickel	ND	ND	200	ug/L
Zinc	ND	ND	150	ug/L
Oil and Grease	ND	ND	15	mg/L
Cyanide	ND	ND	10	ug/L
TDS	**382**	**298**	1000	mg/L
TSS	ND	ND	50	mg/L

Notes:

1) Positive results are presented in ***bold*** *typeface.*

2) ND indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

5) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

* Average daily flow as measured October 1, 2001 to October 31, 2001.

Table 2
Summary of October 2001 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		10/17/01	10/31/01	units
TW-1				
	Pumping Rate	4	6	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	8,445,800	8,468,300	gallons
	Pump Pressure	26	67	psi
TW-2A				
	Pumping Rate	8	11	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	13,607,800	13,648,500	gallons
	Pump Pressure	21	47	psi
TW-3				
	Pumping Rate	2	3	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	5,399,700	5,414,100	gallons
	Pump Pressure	30	75	psi
Air Stripper				
	Stripper Blower Pressure	18	18.5	inches H_2O
	Air Temperature in Stripper	50	48	°F
	Pressure Gauge - Left Leg	1.1	1	inches H_2O
	Pressure Gauge - Right Leg	0.5	0.7	inches H_2O
	Pressure/Vacuum on the Stripper		+ 0.2	inches H_2O
Sand Filter				
	Influent Pressure	17	16	psi
	Effluent Pressure	8	9	psi
	Differential Pressure Across Filter	9	7	psi
Effluent Flow				
	Total System Meter Reading	23,825,600	23,876,400	gallons
	IW-1 Flow Meter Reading	1,261,646	1,262,521	gallons
	IW-2 Flow Meter Reading	1,748,748	1,748,748	gallons
Vapor Extraction System				
	Vapor Blower Vacuum	8.0	9.0	inches Hg
	Vacuum before Filter with Dilution Air	7.5	8.0	inches Hg
	Vacuum on Knock-out Pot	10.5	11.0	inches Hg
	Blower Inlet Temperature	68	60	°F
	Blower Outlet Temperature	188	190	°F
	Pressure After Blower	50	46	psi
	Heat Exchanger Outlet Temperature	70	62	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
Summary of October 2001 Water Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	M.P. Elevation	10/17/01 Depth to Water (ft b.m.p.)	GW Elevation
MW-1	289.50	28.30	261.20
MW-2	332.51	39.00	293.51
MW-3	312.83	38.56	274.27
MW-3S	312.51	33.05	279.46
MW-4	298.29	34.8	263.49
MW-4D	298.16	34.64	263.52
MW-5	285.48	21.43	264.05
MW-6S	287.90	24.11	263.79
MW-6D	287.25	25.88	261.37
MW-7S	292.12	31.80	260.32
MW-7D	292.54	77.58	214.96
MW-8	283.65	N/A	#VALUE!
MW-9	275.37	N/A	#VALUE!
MW-10	280.92	N/A	*N/A*
MW-11	283.72	N/A	#VALUE!
OW-1	307.75	63.16	244.59
OW-2	305.96	76.15	229.81
OW-3	307.35	N/A	#VALUE!
OW-4	308.30	N/A	#VALUE!
OW-5	307.41	N/A	#VALUE!
OW-6	294.81	26.39	268.42
IW-1	312.46	9.62	302.84
IW-2	306.56	7.21	299.35
TW-2	290.52	N/A	#VALUE!

Note: N/A indicates Not Available.

Table 4
October 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE 10/31/01		TW-2AVE 10/31/01		VE-1VE 10/31/01		VE-2VE 10/31/01		ST-1 10/31/01		SVE-EXH 10/31/01		ST-4 10/31/01	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	25	ND	25	ND	25	ND	25	ND	25	**2.5**	25	ND	25
Chloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	**4.4**	25	**2.5**	25
1,1-Dichloroethene	**4.6**	25	**4.8**	25	**5.9**	25	**5.3**	25	**5**	25	**7.1**	25	**4**	25
1,1-Dichloroethane	**19.0**	25	**20**	25	**17**	25	**22**	25	**21**	25	**7**	25	ND	25
cis-1,2-Dichloroethene	**11.0**	25	**13**	25	**24**	25	**14**	25	**13**	25	ND	25	ND	25
1,1,1-Trichloroethane	**146.0**	25	**143**	25	**118**	25	**150**	25	**148**	25	**4.9**	25	ND	25
1,2-Dichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Benzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Trichloroethene	**272**	25	**297**	25	**288**	25	**319**	25	**279**	25	ND	25	ND	25
Toluene	**35**	25	**34**	25	**39**	25	**42**	25	**40**	25	**3.3**	25	**2.3**	25
1,1,2-Trichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Tetrachloroethene	**1.6**	25	ND	25	**12**	25	**3.4**	25	**3.4**	25	ND	25	ND	25
Chlorobenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Ethylbenzene	**16**	25	**16**	25	**16**	25	**14**	25	**12**	25	ND	25	ND	25
p&m -Xylene	**93**	25	**95**	25	**96**	25	**85**	25	**76**	25	ND	25	ND	25
o-Xylene	**43**	25	**43**	25	**43**	25	**38**	25	**34**	25	ND	25	ND	25

Notes:

1) All results are reported in ppbv.

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Legend:

TW-1VE=Well TW-1 Vapor Extraction
TW-2AVE=Well TW-2A Vapor Extraction
VE-1VE=Well VE-1 Vapor Extraction
VE-2VE=Well VE-2 Vapor Extraction
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)

Table 5
October 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	Post Air Stripper (PAS) 10/31/01 Results	RL
Vinyl Chloride	ND	25
Chloroethane	**2.5**	25
1,1-Dichloroethene	**17**	25
1,1-Dichloroethane	**184**	25
cis-1,2-Dichloroethene	**11**	25
1,1,1-Trichloroethane	**351**	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	**164**	25
Toluene	**39**	25
1,1,2-Trichloroethane	ND	25
Tetrachloroethene	**2.7**	25
Chlorobenzene	ND	25
Ethylbenzene	14	25
p&m -Xylene	87	25
o-Xylene	38	25

Notes:
1) All results are reported in ppbv .
2) Positive results are presented in ***bold*** *typeface.*
3) ND indicates Not Detected (Below RL).
4) RL = Reporting Limit

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

LABORATORY REPORT

for

Earth Tech
12 Metro Park Road
Albany, NY 12205

Attention: Keith Decker

PJ:32413.10400

Report date: 11/13/01
Number of samples analyzed: 6
AES Project ID: 011031AS
Invoice #: 234459

ELAP ID#: 10709

AIHA ID#: 100307

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011031AS01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-A-26	11/02/01
Total Dissolved Solids	EPA-160.1	298	mg/l	LS-A-24	11/02/01
Oil & Grease	EPA-1664	<1	mg/l	JK-D-24	11/07/01
Cyanide,Total	EPA-335.3	<0.01	mg/l	MC-H	11/01/01
Zinc	EPA-200.7	<0.01	mg/l	KH-I-4C-27	11/07/01
Aluminum	EPA-200.7	<0.1	mg/l	KH-I-4C-27	11/07/01
Arsenic	EPA-200.7	<0.005	mg/l	KH-I-4C-27	11/07/01
Barium	EPA-200.7	0.09	mg/l	KH-I-4C-27	11/07/01
Copper	EPA-200.7	<0.01	mg/l	KH-I-4C-27	11/07/01
Iron	EPA-200.7	<0.05	mg/l	KH-I-4C-27	11/07/01
Manganese	EPA-200.7	<0.02	mg/l	KH-I-4C-27	11/07/01
Mercury	EPA-245.1	<0.0004	mg/l	SM-PSR-95	11/02/01
Nickel	EPA-200.7	<0.05	mg/l	KH-I-4C-27	11/07/01
Benzene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Chlorobenzene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Chloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,2-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
cis-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
trans-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01

Adirondack Environmental Services, Inc.
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314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011031AS01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Ethylbenzene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Tetrachloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Toluene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1,1-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1,2-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Trichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Vinyl Chloride	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
m,p-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
o-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 011031AS02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-A-26	11/02/01
Total Dissolved Solids	EPA-160.1	382	mg/l	LS-A-24	11/02/01
Oil & Grease	EPA-1664	<1	mg/l	JK-D-24	11/07/01
Cyanide,Total	EPA-335.3	<0.01	mg/l	MC-H	11/01/01
Zinc	EPA-200.7	<0.01	mg/l	KH-I-4C-27	11/07/01
Aluminum	EPA-200.7	<0.1	mg/l	KH-I-4C-27	11/07/01
Arsenic	EPA-200.7	<0.005	mg/l	KH-I-4C-27	11/07/01
Barium	EPA-200.7	0.10	mg/l	KH-I-4C-27	11/07/01
Copper	EPA-200.7	<0.01	mg/l	KH-I-4C-27	11/07/01
Iron	EPA-200.7	0.20	mg/l	KH-I-4C-27	11/07/01
Manganese	EPA-200.7	0.60	mg/l	KH-I-4C-27	11/07/01
Mercury	EPA-245.1	<0.0004	mg/l	SM-PSR-95	11/02/01
Nickel	EPA-200.7	<0.05	mg/l	KH-I-4C-27	11/07/01
Benzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethane	EPA-624	230	ug/l	MG-SAT-E14	11/02/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
cis-1,2-Dichloroethene	EPA-624	16	ug/l	MG-SAT-E14	11/02/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 011031AS02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
1,1-Dichloroethene	EPA-624	20	ug/l	MG-SAT-E14	11/02/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1,1-Trichloroethane	EPA-624	490	ug/l	MG-SAT-E14	11/02/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Trichloroethene	EPA-624	390	ug/l	MG-SAT-E14	11/02/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-1
AES sample #: 011031AS03
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethane	EPA-624	160	ug/l	MG-SAT-E14	11/02/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
cis-1,2-Dichloroethene	EPA-624	5.0	ug/l	MG-SAT-E14	11/02/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethene	EPA-624	15	ug/l	MG-SAT-E14	11/02/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1,1-Trichloroethane	EPA-624	27	ug/l	MG-SAT-E14	11/02/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Trichloroethene	EPA-624	100	ug/l	MG-SAT-E14	11/02/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 011031AS04
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethane	EPA-624	330	ug/l	MG-SAT-E14	11/02/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
cis-1,2-Dichloroethene	EPA-624	27	ug/l	MG-SAT-E14	11/02/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethene	EPA-624	30	ug/l	MG-SAT-E14	11/02/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1,1-Trichloroethane	EPA-624	970	ug/l	MG-SAT-E14	11/02/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Trichloroethene	EPA-624	690	ug/l	MG-SAT-E14	11/02/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-3
AES sample #: 011031AS05
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chlorobenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Chloroethane	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethane	EPA-624	35	ug/l	MG-SAT-E14	11/02/01
1,2-Dichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
cis-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
trans-1,2-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Ethylbenzene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Tetrachloroethene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Toluene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
1,1,1-Trichloroethane	EPA-624	33	ug/l	MG-SAT-E14	11/02/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
Trichloroethene	EPA-624	9.0	ug/l	MG-SAT-E14	11/02/01
Vinyl Chloride	EPA-624	<10	ug/l	MG-SAT-E14	11/02/01
m,p-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01
o-Xylene	EPA-624	<5	ug/l	MG-SAT-E14	11/02/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 011031AS06 Samples taken by: R. Gray
MATRIX: Water

Date Sampled: 10/31/01
Date sample received: 10/31/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Chlorobenzene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Chloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,2-Dichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
cis-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
trans-1,2-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1-Dichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Ethylbenzene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Tetrachloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Toluene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1,1-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
1,1,2-Trichloroethane	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Trichloroethene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
Vinyl Chloride	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
m,p-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01
o-Xylene	EPA-624	<0.5	ug/l	MG-SAT-E14	11/02/01

APPROVED BY:
Report date: 11/13/01

Chain of Custody Record

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client	PID Reading (ppm)	Label Number	Analysis Required												Matrix									
32413.10400	EARTH TECH NOW CORP															Sample Type					Sample Container				
Sample Custodian: (Signature) Roger Gray																									
Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.			EPA 8260	METALS: ZN, AL, AS, BA, CN	METALS: CU, FE, MN, HG, NI	TDS, TSS	O+G	CYANIDE			GW					40 ML				
1	EFF. 10/01	10/31/01	12:40	X				X								X					3				
2			12:45						X	X												1			
3	AS01		12:55								X												1		
4			12:50									X												1	
5			1:00										X												1
6	INF. 10/01		1:05					X													3				
7			1:20						X	X												1			
8	AS02		1:15								X												1		
9			1:10									X												1	
10			1:25										X												1
11	TW-1 10/01		1:30				AS03	X													2				
12	TW-2A 10/01		1:35				AS04	X													2				
13	TW-3 10/01		1:40				AS04	X													2				
14	TRIP BLANK						AS05	X													1				
15																									
16																									
17	011031 AS																								
18																									

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	10-31-01 2:56				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
	10/31/01 256	M			

Send Lab Results To:	Remarks:	Check Delivery Method:	Laboratory Receiving Notes:
KEITH DECKER EARTH TECH 12 METRO PARK RD. ALBANY N.Y. 12205	Federal Express Airbill No.: Lab:	☐ Samples delivered in person ☐ Common carrier	Custody Seal Intact? Temp. of Shipping Container: Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

NOV 16 2001

11/09/2001

Earth Tech
ATTN: Keith Decker
12 Metro Park Road
Albany, NY 12205

Project Reference: NOW Corp.; 32413.10400
Lab Number: A1110102-01/08

Enclosed are results for sample(s) received 11/01/01 by Advanced Technology Laboratories, Inc. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Keith Decker on 11/08/01.

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
Air Toxics Operations Manager
mark@atlglobal.com

Enclosures

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

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 11/01/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1110102-01		A1110102-02		A1110102-03		A1110102-04		A1110102-05	
Client Sample I.D.:		TW-1VE 10/01		VE-1VE 10/01		VE-2VE 10/01		TW-2AVE 10/01		ST 10/01	
Date Sampled:		10/31/01		10/31/01		10/31/01		10/31/01		10/31/01	
Date Analyzed:		11/02/01		11/02/01		11/02/01		11/02/01		11/02/01	
QC Batch No:		011101MS2A2		011101MS2A2		011101MS2A2		011101MS2A2		011101MS2A2	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		3.0		3.0		2.0		2.0		2.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	3.0	ND	3.0	ND	2.0	ND	2.0	ND	2.0
Chloroethane	1.0	ND	3.0	ND	3.0	ND	2.0	ND	2.0	ND	2.0
1,1-Dichloroethene	1.0	4.6	3.0	5.9	3.0	5.3	2.0	4.8	2.0	5.0	2.0
1,1-Dichloroethane	1.0	19	3.0	17	3.0	22	2.0	20	2.0	21	2.0
c-1,2-Dichloroethene	1.0	11	3.0	24	3.0	14	2.0	13	2.0	13	2.0
1,1,1-Trichloroethane	1.0	146	3.0	118	3.0	150	2.0	143	2.0	148	2.0
Benzene	1.0	ND	3.0	ND	3.0	ND	2.0	ND	2.0	ND	2.0
1,2-Dichloroethane	1.0	ND	3.0	ND	3.0	ND	2.0	ND	2.0	ND	2.0
Trichloroethene	1.0	272	3.0	288	3.0	319	2.0	297	2.0	279	2.0
Toluene	1.0	35	3.0	39	3.0	42	2.0	34	2.0	40	2.0
1,1,2-Trichloroethane	1.0	ND	3.0	ND	3.0	ND	2.0	ND	2.0	ND	2.0
Tetrachloroethene	1.0	ND	3.0	12	3.0	3.4	2.0	ND	2.0	3.4	2.0
Chlorobenzene	1.0	ND	3.0	ND	3.0	ND	2.0	ND	2.0	ND	2.0
Ethylbenzene	1.0	16	3.0	16	3.0	14	2.0	16	2.0	12	2.0
p,&m-Xylene	1.0	93	3.0	96	3.0	85	2.0	95	2.0	76	2.0
o-Xylene	1.0	43	3.0	43	3.0	38	2.0	43	2.0	34	2.0

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 11-8-01
Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 11/01/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1110102-06		A1110102-07		A1110102-08					
Client Sample I.D.:		PAS 10/01		SVE-EXH 10/01		ST-4 10/01					
Date Sampled:		10/31/01		10/31/01		10/31/01					
Date Analyzed:		11/02/01		11/02/01		11/02/01					
QC Batch No:		011101MS2A2		011101MS2A2		011101MS2A2					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		2.0		1.0		1.0					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	2.0	2.5	1.0	2.5	1.0				
Chloroethane	1.0	2.5	2.0	4.4	1.0	4.0	1.0				
1,1-Dichloroethene	1.0	17	2.0	7.1	1.0	ND	1.0				
1,1-Dichloroethane	1.0	184	2.0	7.0	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	11	2.0	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	351	2.0	4.9	1.0	ND	1.0				
Benzene	1.0	ND	2.0	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	164	2.0	ND	1.0	ND	1.0				
Toluene	1.0	39	2.0	3.3	1.0	2.3	1.0				
1,1,2-Trichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	2.7	2.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	14	2.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	87	2.0	ND	1.0	ND	1.0				
o-Xylene	1.0	38	2.0	ND	1.0	ND	1.0				

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 11-8-01

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Spike Recovery and RPD Summary Report - AIR (011101MS2A2)

Method : D:\GCMSB\METHODS\TO151005.M (RTE Integrator)
Title : EPA TO-15(10/05/00),GC Column:RTxVolatiles 0.32mm
Last Update : Mon Sep 17 10:49:44 2001
Response via : Initial Calibration

Method Blank: 01NOV026.D

	Laboratory Control Sample	Laboratory Control Sample Duplicate
File ID :	01NOV024.D	01NOV025.D
Sample :	LCS	LCSD
Acq Time:	2 Nov 2001 1:25 am	2 Nov 2001 1:59 am

Compound	Blank Conc	Spike Added	LCS Res	LCSD Res	LCS %Rec	LCSD %Rec	RPD	QC Limits RPD	QC Limits %Rec
1,1-Dichloroethene	0.0	10	9.5	9.2	95	92	3.1	30	70-130
Methylene Chloride	0.0	10	10.8	10.8	108	108	0.4	30	70-130
Trichloroethene	0.0	10	8.5	8.2	85	82	3.7	30	70-130
Toluene	0.0	10	9.2	8.7	92	87	4.6	30	70-130
1,1,2,2-Tetrachloro	0.0	10	9.4	9.2	94	92	2.6	30	70-130

- Fails Limit Check

TO151005.M Thu Nov 08 09:55:19 2001 GCMSB

Operation, Maintenance and Monitoring Report
November 2001

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-10

Prepared for:

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

Prepared by:

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

40 British American Boulevard, Latham, New York 12110

August 2, 2002

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – November 2001

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Earth Tech is pleased to provide you with a monthly summary report for the operation, monitoring and maintenance of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York.

This report covers the operation, maintenance and monitoring of the vapor extraction system and the groundwater pump and treatment system for the period October 31, 2001 to November 28, 2001. In summary, approximately 366,600 gallons of water were treated during the reporting period.

Several of the electronic components of the groundwater extraction system are still not operating properly due to damage sustained from previous electrical storm lightning strikes. These systems give erroneous readings, but do not hinder the ability of the treatment system to function. The system flow levels have been reduced to minimize the possibility of cavitation. These systems will be further evaluated and repaired or replaced upon the approval of a new budget for this project.

Discharge from the treatment system averaged approximately 13,093 gallons per day. Approximately 99 percent of the treated effluent was discharged to Crum Elbow Creek and 1 percent was injected, via well IW-1 into the bedrock aquifer. These readings may not be accurate, due to the fact it is uncommon for these injection wells to accept more of the flow.

Table 1 summarizes influent and effluent data for samples collected on November 28, 2001. All of the effluent treatment requirements were met. A copy of the laboratory report is attached.

Earth Tech made four site visits to conduct the required monthly maintenance and sampling. Table 2 summarizes the operation and maintenance data. Table 3 summarizes monitoring well water level data. Monthly air sampling also occurred on November 28, 2001. Table 4 summarizes the groundwater treatment system air sampling data and Table 5 summarizes the post air stripper data. Copies of the laboratory reports are attached.

Earth Tech personnel performed the following maintenance items in addition to routine

monitoring of system temperatures, pressures, flow measurements, monitoring well water levels, air sampling, etc.:

- Changed oil in the vapor blower motor.
- Back-flushed sand filter (two events).
- Oiled heat exchanger fans.
- Greased air stripper blower motor.

As of November 28, 2001, a total of 24,243,000 gallons of groundwater were recovered and treated by the system.

Please feel free to contact me at (518) 951-2229 should you have any questions regarding the operation of the treatment system.

Sincerely,

Keith A. Decker
Project Manager

Attachments

L:\work\32413\docs\11-01report.doc

Table 1
Summary of Influent and Effluent Data

NOW Corporation Site
Town of Clinton, New York

Effluent Parameters	11/28/01 Influent	11/28/01 Effluent	Treatment Requirements	(units)
Flow	*NA*	13,093	Monitor	gpd
pH	6.5	7.1	6.5 to 8.5	ndard units
Vinyl Chloride	ND	ND	2	ug/L
Chloroethane	ND	ND	5	ug/L
1,1-Dichloroethene	**18**	ND	0.5	ug/L
trans-1,2-Dichloroethene	ND	ND	5	ug/L
1,1-Dichloroethane	**240**	ND	5	ug/L
cis-1,2-Dichloroethene	**12**	ND	5	ug/L
1,1,1-Trichloroethane	**1000**	ND	5	ug/L
Benzene	ND	ND	0.8	ug/L
1,2-Dichloroethane	ND	ND	1.6	ug/L
Trichloroethene	**300**	ND	5	ug/L
Toluene	ND	ND	5	ug/L
1,1,2-Trichloroethane	ND	ND	1.2	ug/L
Tetrachloroethene	ND	ND	1.4	ug/L
Chlorobenzene	ND	ND	5	ug/L
Ethylbenzene	ND	ND	5	ug/L
1,2- and 1,4-Xylenes	ND	ND	10	ug/L
1,3-Xylene	ND	ND	5	ug/L
Aluminum, Total	ND	ND	2000	ug/L
Arsenic, Total	ND	ND	50	ug/L
Barium, Total	**110**	**110**	2000	ug/L
Chromium	ND	**10**	100	ug/L
Copper	ND	ND	24	ug/L
Iron	ND	ND	600	ug/L
Manganese	**110**	ND	600	ug/L
Mercury	ND	ND	0.8	ug/L
Nickel	ND	ND	200	ug/L
Zinc	ND	ND	150	ug/L
Oil and Grease	ND	ND	15	mg/L
Cyanide	ND	ND	10	ug/L
TDS	**308**	**290**	1000	mg/L
TSS	ND	ND	50	mg/L

Notes:

1) Positive results are presented in ***bold*** *typeface.*

2) ND indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

5) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

* Average daily flow as measured October 31, 2001 to November 28, 2001.

Table 2
Summary of November 2001 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		**11/14/01**	**11/28/01**	**units**
TW-1				
	Pumping Rate	4	4	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	18,547,700	18,623,000	gallons
	Pump Pressure	26	18	psi
TW-2A				
	Pumping Rate	7	5	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	13,805,300	13,941,800	gallons
	Pump Pressure	16	16	psi
TW-3				
	Pumping Rate	3	2	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	15,467,500	15,516,400	gallons
	Pump Pressure	36	34	psi
Air Stripper				
	Stripper Blower Pressure	18	19	inches H_2O
	Air Temperature in Stripper	48	50	°F
	Pressure Gauge - Left Leg	1.1	1	inches H_2O
	Pressure Gauge - Right Leg	0.5	0.06	inches H_2O
	Pressure/Vacuum on the Stripper		.0	inches H_2O
Sand Filter				
	Influent Pressure	13	16	psi
	Effluent Pressure	6	8	psi
	Differential Pressure Across Filter	7	8	psi
Effluent Flow				
	Total System Meter Reading	24,074,800	24,243,000	gallons
	IW-1 Flow Meter Reading	1,264,454	1,265,937	gallons
	IW-2 Flow Meter Reading	1,748,748	1,748,748	gallons
Vapor Extraction System				
	Vapor Blower Vacuum	8.0	8.0	inches Hg
	Vacuum before Filter with Dilution Air	7.0	8.0	inches Hg
	Vacuum on Knock-out Pot	9.5	9.5	inches Hg
	Blower Inlet Temperature	63	60	°F
	Blower Outlet Temperature	178	175	°F
	Pressure After Blower	56	56	psi
	Heat Exchanger Outlet Temperature	68	62	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
Summary of November 2001 Water Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	M.P. Elevation	11/14/01		11/28/01	
		Depth to Water (ft b.m.p.)	GW Elevation	Depth to Water (ft b.m.p.)	GW Elevation
MW-1	289.50	30.35	259.15	32.28	257.22
MW-2	332.51	40.36	292.15	41.10	291.41
MW-3	312.83	41.29	271.54	42.84	269.99
MW-3S	312.51	36.35	276.16	38.04	274.47
MW-4	298.29	36.2	262.09	37.5	260.79
MW-4D	298.16	36.04	262.12	37.31	260.85
MW-5	285.48	21.98	263.50	22.12	263.36
MW-6S	287.90	24.1	263.80	24.12	263.78
MW-6D	287.25	27.44	259.81	29.29	257.96
MW-7S	292.12	31.86	260.26	32.07	260.05
MW-7D	292.54	78.27	214.27	78.42	214.12
MW-8	283.65	N/A	#VALUE!	N/A	#VALUE!
MW-9	275.37	N/A	#VALUE!	N/A	#VALUE!
MW-10	280.92	N/A	*N/A*	N/A	#VALUE!
MW-11	283.72	N/A	#VALUE!	N/A	#VALUE!
OW-1	307.75	64.50	243.25	65.83	241.92
OW-2	305.96	76.45	229.51	76.88	229.08
OW-3	307.35	N/A	#VALUE!	N/A	#VALUE!
OW-4	308.30	N/A	#VALUE!	N/A	#VALUE!
OW-5	307.41	N/A	#VALUE!	N/A	#VALUE!
OW-6	294.81	30.05	264.76	31.89	262.92
IW-1	312.46	10.49	301.97	10.48	301.98
IW-2	306.56	9.71	296.85	9.67	296.89
TW-2	290.52	N/A	#VALUE!	N/A	#VALUE!

Note: N/A indicates Not Available.

Table 4
November 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE 11/28/01		TW-2AVE 11/28/01		VE-1VE 11/28/01		VE-2VE 11/28/01		ST-1 11/28/01		SVE-EXH 11/28/01		ST-4 11/28/01	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	**2.0**	25	ND	25	ND	25	**1.3**	25	ND	25	**5.3**	25	**5.2**	25
Chloroethane	**3.0**	25	**1.7**	25	ND	25	**2.2**	25	**2.8**	25	**8.5**	25	**8.9**	25
1,1-Dichloroethene	**18.0**	25	**11.2**	25	**5.1**	25	**14**	25	**21**	25	**53**	25	**16**	25
1,1-Dichloroethane	**53.0**	25	**38.0**	25	**17**	25	**45**	25	**61**	25	**169**	25	**17**	25
cis-1,2-Dichloroethene	**10.0**	25	**7.3**	25	**5.8**	25	**8.7**	25	**12**	25	**6**	25	ND	25
1,1,1-Trichloroethane	**253.0**	25	**199**	25	**92**	25	**235**	25	**309**	25	**187.0**	25	**1.7**	25
1,2-Dichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Benzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Trichloroethene	**218**	25	**174**	25	**109**	25	**195**	25	**237**	25	ND	25	ND	25
Toluene	**2**	25	**2.1**	25	**2.7**	25	**3**	25	**3.8**	25	**2.4**	25	**2.9**	25
1,1,2-Trichloroethane	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Tetrachloroethene	ND	25	ND	25	ND	25	ND	25	**4.7**	25	ND	25	ND	25
Chlorobenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Ethylbenzene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
p&m -Xylene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
o-Xylene	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25

Notes:

1) All results are reported in ppbv.

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Legend:

TW-1VE=Well TW-1 Vapor Extraction
TW-2AVE=Well TW-2A Vapor Extraction
VE-1VE=Well VE-1 Vapor Extraction
VE-2VE=Well VE-2 Vapor Extraction
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)

Table 5
November 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	Post Air Stripper (PAS) 11/28/01 Results	RL
Vinyl Chloride	ND	25
Chloroethane	ND	25
1,1-Dichloroethene	**13**	25
1,1-Dichloroethane	**180**	25
cis-1,2-Dichloroethene	**23**	25
1,1,1-Trichloroethane	**613**	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	**110**	25
Toluene	**12**	25
1,1,2-Trichloroethane	ND	25
Tetrachloroethene	ND	25
Chlorobenzene	ND	25
Ethylbenzene	ND	25
p&m -Xylene	**4.1**	25
o-Xylene	ND	25

Notes:

1) All results are reported in ppbv .

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

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LABORATORY REPORT

for

Earth Tech
12 Metro Park Road
Albany, NY 12205

Attention: Keith Decker

PJ:32413.10400

Report date: 12/18/01
Number of samples analyzed: 6
AES Project ID: 011128AE
Invoice #: 235491

ELAP ID#: 10709

AIHA ID#: 100307

Adirondack Environmental Services, Inc.
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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011128AE01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-B-7	11/30/01
Total Dissolved Solids	SW-846	290	mg/l	LS-B-5	11/29/01
Oil & Grease	EPA-9070	<1	mg/l	JK-D-35	12/04/01
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-I	11/30/01
Zinc	EPA-6010	<0.01	mg/l	SM-I-3G-38	12/03/01
Aluminum	EPA-6010	<0.1	mg/l	SM-I-3G-38	12/03/01
Arsenic	EPA-6010	<0.005	mg/l	SM-I-3G-38	12/03/01
Barium	EPA-6010	0.11	mg/l	SM-I-3G-38	12/03/01
Copper	EPA-6010	<0.02	mg/l	SM-I-3G-38	12/03/01
Chromium	EPA-6010	0.010	mg/l	SM-I-3G-38	12/03/01
Iron	EPA-6010	<0.05	mg/l	SM-I-3G-38	12/03/01
Manganese	EPA-6010	<0.02	mg/l	SM-I-3G-38	12/03/01
Mercury	EPA-7471	<0.0004	mg/l	KH-PSR-121	11/30/01
Nickel	EPA-6010	<0.05	mg/l	SM-I-3G-38	12/03/01
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011128AE01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E19	11/30/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 011128AE02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-B-7	11/30/01
Total Dissolved Solids	SW-846	308	mg/l	LS-B-5	11/29/01
Oil & Grease	EPA-9070	<1	mg/l	JK-D-35	12/04/01
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-I	11/30/01
Zinc	EPA-6010	<0.01	mg/l	SM-I-3G-38	12/03/01
Aluminum	EPA-6010	<0.1	mg/l	SM-I-3G-38	12/03/01
Arsenic	EPA-6010	<0.005	mg/l	SM-I-3G-38	12/03/01
Barium	EPA-6010	0.11	mg/l	SM-I-3G-38	12/03/01
Copper	EPA-6010	<0.02	mg/l	SM-I-3G-38	12/03/01
Chromium	EPA-6010	0.008	mg/l	SM-I-3G-38	12/03/01
Iron	EPA-6010	<0.05	mg/l	SM-I-3G-38	12/03/01
Manganese	EPA-6010	0.11	mg/l	SM-I-3G-38	12/03/01
Mercury	EPA-7471	<0.0004	mg/l	KH-PSR-121	11/30/01
Nickel	EPA-6010	<0.05	mg/l	SM-I-3G-38	12/03/01
Benzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethane	EPA-8260	240	ug/l	MG-SAT-E19	11/30/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
cis-1,2-Dichloroethene	EPA-8260	12	ug/l	MG-SAT-E19	11/30/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: INF.
AES sample #: 011128AE02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethene	EPA-8260	18	ug/l	MG-SAT-E19	11/30/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1,1-Trichloroethane	EPA-8260	1000	ug/l	MG-SAT-E19	11/30/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Trichloroethene	EPA-8260	300	ug/l	MG-SAT-E19	11/30/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-1
AES sample #: 011128AE03
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethane	EPA-8260	130	ug/l	MG-SAT-E19	11/30/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethene	EPA-8260	12	ug/l	MG-SAT-E19	11/30/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1,1-Trichloroethane	EPA-8260	8	ug/l	MG-SAT-E19	11/30/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Trichloroethene	EPA-8260	54	ug/l	MG-SAT-E19	11/30/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 011128AE04
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethane	EPA-8260	400	ug/l	MG-SAT-E19	11/30/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
cis-1,2-Dichloroethene	EPA-8260	21	ug/l	MG-SAT-E19	11/30/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethene	EPA-8260	28	ug/l	MG-SAT-E19	11/30/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1,1-Trichloroethane	EPA-8260	2200	ug/l	MG-SAT-E19	11/30/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Trichloroethene	EPA-8260	540	ug/l	MG-SAT-E19	11/30/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01

Adirondack Environmental Services, Inc.
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314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech
CLIENT'S SAMPLE ID: TW-3
AES sample #: 011128AE05
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethane	EPA-8260	36	ug/l	MG-SAT-E19	11/30/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1,1-Trichloroethane	EPA-8260	23	ug/l	MG-SAT-E19	11/30/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Trichloroethene	EPA-8260	7	ug/l	MG-SAT-E19	11/30/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01

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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 011128AE06
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 11/28/01
Date sample received: 11/28/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Toluene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Trichloroethene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E19	11/30/01
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E19	11/30/01

APPROVED BY:
Report date: 12/18/01

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Chain of Custody Record

011128 AE

Custody Seal #	Rust E&I Cooler #

Project Number	Project Name/Client
32413. 10400	EARTH TECH NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: Zn, Al, As, Ba, Cu	METALS: Cr, Fe, Mn, Hg, Ni	TDS, TSS	O+G	CYANIDE	Matrix: Sample Type GW	Sample Container 40 ml
1	EFF 11/01	11-28-01	12:25	X				X						X	2
2			12:30						X	X					1
3	AE01		12:35								X				1
4			12:40									X			1
5			12:45										X		1
6	INF 11/01		12:50					X							2
7			12:55						X	X					1
8	AE02		1:00								X				1
9			1:05									X			1
10			1:10										X		1
11	TW-1 11/01		1:15			AE03		X							2
12	TW-2A 11/01		1:20			AE04		X							2
13	TW-3 11/01		1:25			AE05		X							2
14	TRIP BLANK					AE06		X							1
15															
16															
17															
18															

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	11-28-01 12:35				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: KEITH DECKER
EARTH TECH.
12 METRO PARK RD.
ALBANY N.Y.
12205

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

12/12/2001

Earth Tech
ATT
12
Alb

EART012 122052024 1C01 13 12/31/01
NOTIFY SENDER OF NEW ADDRESS
:EARTH TECH
40 BRITISH AMERICAN BLVD
LATHAM NY 12110-1415

Proje ., 32413.10400
Lab N A1112904-01/08

Enclosed are results for sample(s) received 11/29/01 by Advanced Technology Laboratories, Inc. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Keith Decker on 12/11/01.

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
Air Toxics Operations Manager
mark@atlglobal.com

Enclosures

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

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 11/29/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1112904-01		A1112904-02		A1112904-03		A1112904-04		A1112904-05	
Client Sample I.D.:		TW-1VE 11/01		VE-1VE 11/01		VE-2VE 11/01		TW-2AVE 11/01		ST-1 11/01	
Date Sampled:		11/28/01		11/28/01		11/28/01		11/28/01		11/28/01	
Date Analyzed:		11/30/01		11/30/01		11/30/01		11/30/01		11/30/01	
QC Batch No:		011130MS2A1		011130MS2A1		011130MS2A1		011130MS2A1		011130MS2A1	
Analyst Initials:		MJ		MJ		MJ		MJ		MJ	
Dilution Factor:		1.0		1.0		1.0		1.0		2.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	2.0	1.0	ND	1.0	1.3	1.0	ND	1.0	ND	2.0
Chloroethane	1.0	3.0	1.0	ND	1.0	2.2	1.0	1.7	1.0	2.8	2.0
1,1-Dichloroethene	1.0	18	1.0	5.1	1.0	14	1.0	11.2	1.0	21	2.0
1,1-Dichloroethane	1.0	53	1.0	17	1.0	45	1.0	38	1.0	61	2.0
c-1,2-Dichloroethene	1.0	10	1.0	5.8	1.0	8.7	1.0	7.3	1.0	12	2.0
1,1,1-Trichloroethane	1.0	253	1.0	92	1.0	235	1.0	199	1.0	309	2.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0
Trichloroethene	1.0	218	1.0	109	1.0	195	1.0	174	1.0	237	2.0
Toluene	1.0	2.0	1.0	2.7	1.0	3.0	1.0	2.1	1.0	3.8	2.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	4.7	2.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 12-11-01

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Keith Decker

Client's Project: NOW CORP., 32413.10400
Date Received: 11/29/01
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A1112904-06		A1112904-07		A1112904-08					
Client Sample I.D.:		PAS 11/01		SVE-EXH 11/01		ST-4 11/01					
Date Sampled:		11/28/01		11/28/01		11/28/01					
Date Analyzed:		11/30/01		11/30/01		11/30/01					
QC Batch No:		011130MS2A1		011130MS2A1		011130MS2A1					
Analyst Initials:		MJ		MJ		MJ					
Dilution Factor:		4.0		1.0		1.0					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	4.0	5.3	1.0	5.2	1.0				
Chloroethane	1.0	ND	4.0	8.5	1.0	8.9	1.0				
1,1-Dichloroethene	1.0	13	4.0	53	1.0	16	1.0				
1,1-Dichloroethane	1.0	180	4.0	169	1.0	17	1.0				
c-1,2-Dichloroethene	1.0	23	4.0	6.0	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	613	4.0	187	1.0	1.7	1.0				
Benzene	1.0	ND	4.0	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	110	4.0	ND	1.0	ND	1.0				
Toluene	1.0	12	4.0	2.4	1.0	2.9	1.0				
1,1,2-Trichloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	ND	4.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	4.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	4.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	4.1	4.0	ND	1.0	ND	1.0				
o-Xylene	1.0	ND	4.0	ND	1.0	ND	1.0				

MDL = Method Detection Limit
ND = Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 12-11-01

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 011130MS2A1

Matrix: Air

EPA Method TO14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/30/01		11/30/01		11/30/01						
Data File ID:	30NOV005.D		30NOV003.D		30NOV004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		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	8.9	89	9.0	90	0.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.9	99	9.9	99	0.0	70	130	30	Pass
Trichloroethene	0.0	10.0	7.9	79	7.8	78	1.9	70	130	30	Pass
Toluene	0.0	10.0	8.4	84	8.2	82	2.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.1	81	8.2	82	1.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 12-11-01

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Operation, Maintenance and Monitoring Report
December 2001

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-10

Prepared for:

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

Prepared by:

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

40 British American Boulevard, Latham, New York 12110

August 2, 2002

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – December 2001

Telephone
518.951.2200
Facsimile
518.951.2300

Dear Mr. Mahamooth:

Earth Tech is pleased to provide you with a monthly summary report for the operation, monitoring and maintenance of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York.

This report covers the operation, maintenance and monitoring of the vapor extraction system and the groundwater pump and treatment system for the period November 28, 2001 to December 26, 2001. In summary, approximately 229,400 gallons of water were treated during the reporting period.

Several of the electronic components of the groundwater extraction system are still not operating properly due to damage sustained from previous electrical storm lightning strikes. These systems give erroneous readings, but do not hinder the ability of the treatment system to function.

Pump TW-1 well not registering any flow, pump placed on by hand switch and pumped 4-5 minutes and then shut off. On December 20, 2001, system had shut down. The alarm system showed that the air stripper blower motor had tripped the breaker. Well pump TW-1 turned back on and set at 4 gpm flow. TW-3 is not pumping, placed on using hand switch and shuts off after 10 seconds. System down again on December 26, 2001, this time low flow alarm tripped system and vapor blower motor. Well pumps will only run by hand. Instructed personnel to leave system off until we can get it diagnosed.

Discharge from the treatment system averaged approximately 8,193 gallons per day. Approximately 99 percent of the treated effluent was discharged to Crum Elbow Creek and 1 percent was injected, via well IW-1 into the bedrock aquifer. These readings may not be accurate, due to the fact it is uncommon for these injection wells to accept more of the flow.

Table 1 summarizes influent and effluent data for samples collected on December 26, 2001. All of the effluent treatment requirements were met. A copy of the laboratory report is attached.

Earth Tech made four site visits to conduct the required monthly maintenance and sampling. Table 2 summarizes the operation and maintenance data. Table 3 summarizes monitoring well water level data. Monthly air sampling also occurred on December 26, 2001. Table 4 summarizes the groundwater treatment system air sampling data and Table 5 summarizes the post air stripper data. Copies of the laboratory reports are attached.

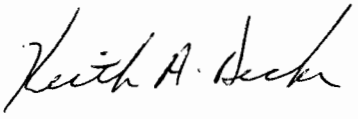
Earth Tech personnel performed the following maintenance items in addition to routine monitoring of system temperatures, pressures, flow measurements, monitoring well water levels, air sampling, etc.:

- Changed filters on heat exchanger.
- Back-flushed sand filter.
- Drilled out air stripper plates.

As of December 26, 2001, a total of 24,472,400 gallons of groundwater were recovered and treated by the system.

Please feel free to contact me at (518) 951-2229 should you have any questions regarding the operation of the treatment system.

Sincerely,



Keith A. Decker
Project Manager

Attachments

L:\work\32413\docs\12-01report.doc

Table 1
Summary of Influent and Effluent Data

NOW Corporation Site
Town of Clinton, New York

Effluent Parameters	12/26/01 Influent	12/26/01 Effluent	TW-1	TW-2A	TW-3	Treatment Requirements	(units)
Flow	*NA*	8,193				Monitor	gpd
pH	6.8	6.8				6.5 to 8.5	standard units
Vinyl Chloride	ND	ND	ND	ND	ND	2	ug/L
Chloroethane	ND	ND	ND	ND	ND	5	ug/L
1,1-Dichloroethene	**7**	ND	**7**	**14**	ND	0.5	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	5	ug/L
1,1-Dichloroethane	**76**	ND	**61**	**150**	**8**	5	ug/L
cis-1,2-Dichloroethene	**12**	ND	ND	**11**	ND	5	ug/L
1,1,1-Trichloroethane	**210**	ND	**6**	**600**	ND	5	ug/L
Benzene	ND	ND	ND	ND	ND	0.8	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.6	ug/L
Trichloroethene	**110**	ND	**32**	**230**	ND	5	ug/L
Toluene	ND	ND	ND	ND	ND	5	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.2	ug/L
Tetrachloroethene	ND	ND	ND	ND	ND	1.4	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	5	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	5	ug/L
1,2- and 1,4-Xylenes	ND	ND	ND	ND	ND	10	ug/L
1,3-Xylene	ND	ND	ND	ND	ND	5	ug/L
Aluminum, Total	ND	ND				2000	ug/L
Arsenic, Total	ND	ND				50	ug/L
Barium, Total	**100**	**90**				2000	ug/L
Chromium	**13**	ND				100	ug/L
Copper	ND	ND				24	ug/L
Iron	**470**	ND				600	ug/L
Manganese	**660**	ND				600	ug/L
Mercury	ND	ND				0.8	ug/L
Nickel	ND	ND				200	ug/L
Zinc	ND	ND				150	ug/L
Oil and Grease	ND	ND				15	mg/L
Cyanide	ND	ND				10	ug/L
TDS	**342**	**412**				1000	mg/L
TSS	**1.0**	ND				50	mg/L

Notes:

1) Positive results are presented in ***bold*** *typeface.*

2) ND indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) " ***J*** *" indicates an estimated concentration below the method detection limit.*

5) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

* Average daily flow as measured November 28, 2001 to December 26, 2001.

Table 2
Summary of December 2001 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		12/12/01	12/26/01	units
TW-1				
	Pumping Rate	NW	NW	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	8,692,100	8,711,900	gallons
	Pump Pressure	0	0	psi
TW-2A				
	Pumping Rate	NW	NW	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	14,057,600	14,134,700	gallons
	Pump Pressure	57	0	psi
TW-3				
	Pumping Rate	2	NW	GPM
	Water Level Above Transducer	NW	NW	feet
	Flow Meter Reading	5,556,600	5,576,100	gallons
	Pump Pressure	12	0	psi
Air Stripper				
	Stripper Blower Pressure	22	NW	inches H_2O
	Air Temperature in Stripper	46	NW	°F
	Pressure Gauge - Left Leg	0.9	NW	inches H_2O
	Pressure Gauge - Right Leg	0.3	NW	inches H_2O
	Pressure/Vacuum on the Stripper		NW	inches H_2O
Sand Filter				
	Influent Pressure	16	NW	psi
	Effluent Pressure	8	NW	psi
	Differential Pressure Across Filter	8	NW	psi
Effluent Flow				
	Total System Meter Reading	24,395,500	24,472,400	gallons
	IW-1 Flow Meter Reading	1,267,526	1,268,769	gallons
	IW-2 Flow Meter Reading	1,748,748	1,748,748	gallons
Vapor Extraction System				
	Vapor Blower Vacuum	8.0	NW	inches Hg
	Vacuum before Filter with Dilution Air	8.0	NW	inches Hg
	Vacuum on Knock-out Pot	9.5	NW	inches Hg
	Blower Inlet Temperature	55	NW	°F
	Blower Outlet Temperature	162	NW	°F
	Pressure After Blower	52	NW	psi
	Heat Exchanger Outlet Temperature	58	NW	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
Summary of December 2001 Water Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	M.P. Elevation	12/12/01 Depth to Water (ft b.m.p.)	12/12/01 GW Elevation	12/26/01 Depth to Water (ft b.m.p.)	12/26/01 GW Elevation
MW-1	289.50	32.08	257.42	24.28	265.22
MW-2	332.51	41.81	290.70	41.83	290.68
MW-3	312.83	42.85	269.98	35.78	277.05
MW-3S	312.51	38.56	273.95	33.14	279.37
MW-4	298.29	37.48	260.81	31.4	266.89
MW-4D	298.16	37.28	260.88	31.28	266.88
MW-5	285.48	21.79	263.69	20.24	265.24
MW-6S	287.90	24.15	263.75	22.67	265.23
MW-6D	287.25	29.55	257.70	22.29	264.96
MW-7S	292.12	32.19	259.93	26.19	265.93
MW-7D	292.54	72.70	219.84	29.26	263.28
MW-8	283.65	N/A	#VALUE!	N/A	#VALUE!
MW-9	275.37	N/A	#VALUE!	N/A	#VALUE!
MW-10	280.92	N/A	*N/A*	N/A	#VALUE!
MW-11	283.72	N/A	#VALUE!	N/A	#VALUE!
OW-1	307.75	64.09	243.66	42.63	265.12
OW-2	305.96	76.54	229.42	45.94	260.02
OW-3	307.35	N/A	#VALUE!	N/A	#VALUE!
OW-4	308.30	N/A	#VALUE!	N/A	#VALUE!
OW-5	307.41	N/A	#VALUE!	N/A	#VALUE!
OW-6	294.81	30.78	264.03	16.71	278.10
IW-1	312.46	10.5	301.96	9.54	302.92
IW-2	306.56	9.69	296.87	12.61	293.95
TW-2	290.52	N/A	#VALUE!	N/A	#VALUE!

Note: N/A indicates Not Available.

Table 4
December 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE 12/26/01		TW-2AVE 12/26/01		VE-1VE 12/26/01		VE-2VE 12/26/01		ST-1 12/26/01		SVE-EXH 12/26/01		ST-4 12/26/01	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
	No Samples Collected													
Vinyl Chloride		25		25		25		25		25		25		25
Chloroethane		25		25		25		25		25		25		25
1,1-Dichloroethene		25		25		25		25		25		25		25
1,1-Dichloroethane		25		25		25		25		25		25		25
cis-1,2-Dichloroethene		25		25		25		25		25		25		25
1,1,1-Trichloroethane		25		25		25		25		25		25		25
1,2-Dichloroethane		25		25		25		25		25		25		25
Benzene		25		25		25		25		25		25		25
Trichloroethene		25		25		25		25		25		25		25
Toluene		25		25		25		25		25		25		25
1,1,2-Trichloroethane		25		25		25		25		25		25		25
Tetrachloroethene		25		25		25		25		25		25		25
Chlorobenzene		25		25		25		25		25		25		25
Ethylbenzene		25		25		25		25		25		25		25
p&m -Xylene		25		25		25		25		25		25		25
o-Xylene		25		25		25		25		25		25		25

Notes:

1) All results are reported in ppbv .

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Legend:

TW-1VE=Well TW-1 Vapor Extraction

TW-2AVE=Well TW-2A Vapor Extraction

VE-1VE=Well VE-1 Vapor Extraction

VE-2VE=Well VE-2 Vapor Extraction

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)

Table 5
December 2001 Groundwater Treatment System Air Sampling Data
NOW Corporation Site
Town of Clinton, New York

Analyte	Post Air Stripper (PAS) 12/26/01	
	Results	**RL**
	No Sample Collected	
Vinyl Chloride		25
Chloroethane		25
1,1-Dichloroethene		25
1,1-Dichloroethane		25
cis-1,2-Dichloroethene		25
1,1,1-Trichloroethane		25
1,2-Dichloroethane		25
Benzene		25
Trichloroethene		25
Toluene		25
1,1,2-Trichloroethane		25
Tetrachloroethene		25
Chlorobenzene		25
Ethylbenzene		25
p&m -Xylene		25
o-Xylene		25

Notes:

1) All results are reported in ppbv .

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

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JAN 10 2002

LABORATORY REPORT

for

Earth Tech, Inc.
40 British American Blvd.
Latham, NY 12110

Attention: Keith Decker

PJ:32413.10400

Report date: 01/09/02
Number of samples analyzed: 6
AES Project ID: 011226AD
Invoice #: 236667

ELAP ID#: 10709

AIHA ID#: 100307

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CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011226AD01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 12/26/01
Date sample received: 12/26/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-B-40	12/28/01
Total Dissolved Solids	SW-846	412	mg/l	LS-B-38	12/27/01
Oil & Grease	EPA-9070	<1	mg/l	JK-D-46	01/04/02
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-I	01/07/02
Zinc	EPA-6010	<0.01	mg/l	SM-I-4C-56	01/04/02
Aluminum	EPA-6010	<0.1	mg/l	SM-I-4C-56	01/04/02
Arsenic	EPA-6010	<0.005	mg/l	SM-I-4C-56	01/04/02
Barium	EPA-6010	0.09	mg/l	SM-I-4C-56	01/04/02
Copper	EPA-6010	<0.05	mg/l	SM-I-4C-56	01/04/02
Chromium	EPA-6010	<0.005	mg/l	SM-I-4C-56	01/04/02
Iron	EPA-6010	<0.05	mg/l	SM-I-4C-56	01/04/02
Manganese	EPA-6010	<0.02	mg/l	SM-I-4C-56	01/04/02
Mercury	EPA-7471	<0.0004	mg/l	SM-HG-A-12	01/02/02
Nickel	EPA-6010	<0.05	mg/l	SM-I-4C-56	01/04/02
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02

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CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: EFF.
AES sample #: 011226AD01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 12/26/01
Date sample received: 12/26/01
Location: Now Corp.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/07/02

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CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: INF.
AES sample #: 011226AD02
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 12/26/01
Date sample received: 12/26/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	1.0	mg/l	JK-B-40	12/28/01
Total Dissolved Solids	SW-846	342	mg/l	LS-B-38	12/27/01
Oil & Grease	EPA-9070	<1	mg/l	JK-D-46	01/04/02
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-I	01/07/02
Zinc	EPA-6010	0.01	mg/l	SM-I-4C-56	01/04/02
Aluminum	EPA-6010	<0.1	mg/l	SM-I-4C-56	01/04/02
Arsenic	EPA-6010	<0.005	mg/l	SM-I-4C-56	01/04/02
Barium	EPA-6010	0.10	mg/l	SM-I-4C-56	01/04/02
Copper	EPA-6010	<0.05	mg/l	SM-I-4C-56	01/04/02
Chromium	EPA-6010	0.013	mg/l	SM-I-4C-56	01/04/02
Iron	EPA-6010	0.47	mg/l	SM-I-4C-56	01/04/02
Manganese	EPA-6010	0.66	mg/l	SM-I-4C-56	01/04/02
Mercury	EPA-7471	<0.0004	mg/l	SM-HG-A-12	01/02/02
Nickel	EPA-6010	<0.05	mg/l	SM-I-4C-56	01/04/02
Benzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethane	EPA-8260	76	ug/l	MG-SAT-E25	01/04/02
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02

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CLIENT: Earth Tech, Inc. Date Sampled: 12/26/01
CLIENT'S SAMPLE ID: INF. Date sample received: 12/26/01
AES sample #: 011226AD02 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethene	EPA-8260	7	ug/l	MG-SAT-E25	01/04/02
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Toluene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1,1-Trichloroethane	EPA-8260	210	ug/l	MG-SAT-E25	01/04/02
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Trichloroethene	EPA-8260	110	ug/l	MG-SAT-E25	01/04/02
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E25	01/04/02
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02

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CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-1
AES sample #: 011226AD03
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 12/26/01
Date sample received: 12/26/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethane	EPA-8260	61	ug/l	MG-SAT-E25	01/04/02
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethene	EPA-8260	7	ug/l	MG-SAT-E25	01/04/02
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Toluene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1,1-Trichloroethane	EPA-8260	6	ug/l	MG-SAT-E25	01/04/02
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Trichloroethene	EPA-8260	32	ug/l	MG-SAT-E25	01/04/02
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E25	01/04/02
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02

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CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 011226AD04
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 12/26/01
Date sample received: 12/26/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E25	01/07/02
1,1-Dichloroethane	EPA-8260	150	ug/l	MG-SAT-E25	01/07/02
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
cis-1,2-Dichloroethene	EPA-8260	11	ug/l	MG-SAT-E25	01/07/02
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
1,1-Dichloroethene	EPA-8260	14	ug/l	MG-SAT-E25	01/07/02
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
Toluene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
1,1,1-Trichloroethane	EPA-8260	600	ug/l	MG-SAT-E25	01/07/02
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
Trichloroethene	EPA-8260	230	ug/l	MG-SAT-E25	01/07/02
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E25	01/07/02
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/07/02

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CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-3
AES sample #: 011226AD05
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 12/26/01
Date sample received: 12/26/01
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethane	EPA-8260	8	ug/l	MG-SAT-E25	01/04/02
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Toluene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1,1-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Trichloroethene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-E25	01/04/02
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-E25	01/04/02

Adirondack Environmental Services, Inc.
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CLIENT: Earth Tech, Inc. Date Sampled: 12/26/01
CLIENT'S SAMPLE ID: Trip Blank Date sample received: 12/26/01
AES sample #: 011226AD06 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-E25	01/04/02

APPROVED BY: Lara Dey
Report date: 01/09/02

Chain of Custody Record

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

Project Number	Project Name/Client	Custody Seal #	Rust E&I Cooler #
12413.10400	NOW CORP.		

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	Metals: Zn, Al, As, Ba, Cu, Metals: Cu, Fe, Mn, Hg, Ni	TDS, TSS	O&G	Cyanide	Matrix: Sample Type: GW	Sample Container: 40 mL.
1	EFF. 12/01	12-26-01	12:00	X				X					X	2
2			12:20						X X					1
3	ADO1		12:10							X				1
4			12:05								X			1
5			12:15									X		1
6	INF 12/01		12:25					X						2
7			12:40						X X					1
8	ADO2		12:35							X				1
9			12:30								X			1
10			12:45									X		1
11	TW-1 ADO3 12/01		12:50											2
12	TW-2A ADO4 12/01		12:55											2
13	TW 3 ADO5 12/01		1:00											2
14	TRIP BLANK ADO6							X						1
15														
16														
17	011226 AD													
18														

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	12-26-01 1235				
Relinquished by: (Signature)	Date / Time	Received by: (Signature) M A 12/26/01	Disposed of by: (Signature)	Items:	Date / Time
		1410 PM			

Send Lab Results To: KEITH DECKER
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM N.Y. 12110

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

10/98 White Copy - Lab Yellow Copy - File Pink Copy - Client F514/Earth.Sci