ALPHA
GEOSCIENCE
Geology
Hydrology
Remediation
Water Supply

August 4, 2004

Mr. John Rashak
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561-1696

Re: May 2004 Ground Water Results
Revonak Dry Cleaners Site
NYSDEC Site No. 356021

Dear Mr. Rashak:

Enclosed are the results of the analyses of three samples collected from ground water monitoring wells at the New Paltz Plaza (NYSDEC Site No. 356021) on May 19, 2004. The purpose of the sampling event was to evaluate changes in ground water quality following the injection of Hydrogen Releasing Compounds (HRC-X) in November 2003.

Ground water samples were collected from wells MW-2, MW-3 and MW-6 according to the NYSDEC-approved sampling procedures for the site. The samples were submitted to Severn Trent Laboratories, Inc. in Newburgh, New York for analysis of volatile organic compounds (VOCs), total organic carbon, sulfate, nitrate, total iron, and dissolved iron. This suite of parameters was selected to monitor both changes in ground water chemistry related to reactions resulting from the HRC-X, and degradation of solvent-related compounds. The laboratory reports are provided in Attachment No. 1.

Table 1 presents the results of HRC indicator parameters for samples collected at the time of the HRC-X injection (November 2003) and for the samples collected in May 2004. As the HRC reacts in the subsurface, the total organic carbon and dissolved iron concentrations should increase, and the nitrate and sulfate concentrations should decrease. Comparison of the results between November 2003 and May 2004 indicate increases or decreases in several of the parameters indicating that the HRC is altering the geochemistry of the subsurface environment.

Tables 2, 3 and 4 provide a summary of the VOC laboratory analytical results for wells MW-2, MW-3 and MW-6, respectively. The concentration of total VOCs and individual compounds remains low and relatively unchanged in well MW-3. Total VOCs increased slightly, while concentrations of tetrachloroethylene decreased and related degradation compounds (cis-1,2-dichloroethene and vinyl chloride) increased in wells MW-2 and MW-6.

Increases in the concentration of degradation compounds, such as cis-1,2-dichloroethene and vinyl chloride, are expected as the tetrachloroethylene is initially degraded; therefore, decreases in the concentration of total VOCs is not expected early in the dechlorination process. It is expected that the concentration of the degradation compounds will decrease with time as the dechlorination process continues.

Future ground water monitoring results will provide further documentation of the effectiveness of the HRC-X injection. Ground water samples are scheduled to be collected and analyzed for VOCs in August, in accordance with the approved ground water monitoring plan. Ground water samples from wells MW-2, MW-3 and MW-6 also will be analyzed for the HRC indicator parameters.

Please feel free to contact me with any questions you have regarding this matter.

Sincerely,
Alpha Geoscience

Thomas M. Johnson
Hydrogeologist

TMJ/bms

Attachment

cc: R. Pergadia
R. Rusinko
F. Navratil
P. Kempner
K.Young
R. Schwartz
H. Hordes

TABLE 1

Summary of Ground Water Sampling Analytical Results
HRC Indicator Parameters
Revonak Dry Cleaners Site No. 356021

WELL MW-2

Analyte	Units	DATE 11/13/03	DATE 05/19/04
Sulfate	mg/L	39.2	<5.0
Nitrate	mg/L	<0.200	<0.200
Total Iron	ug/L	12,200	17,600
Dissolved Iron	ug/L	<100	19,300
Total Organic Carbon	mg/L	5	221

WELL MW-3

Analyte	Units	DATE 11/13/03	DATE 05/19/04
Sulfate	mg/L	51.8	27.0
Nitrate	mg/L	<0.200	<0.200
Total Iron	ug/L	4280	630
Dissolved Iron	ug/L	<100	<100
Total Organic Carbon	mg/L	3.56	6.19

WELL MW-6

Analyte	Units	DATE 11/14/03	DATE 05/19/04
Sulfate	mg/L	15.5	8.0
Nitrate	mg/L	0.270	<0.200
Total Iron	ug/L	11700	3530
Dissolved Iron	ug/L	<100	731
Total Organic Carbon	mg/L	714	69.9

TABLE 2

Well MW-2
Summary of Ground Water Sampling Analytical Results
Volatile Organic Compounds
Revonak Dry Cleaners Site No. 356021

Halogenated Volatile Organics	12/91	9/94	2/5/1996	3/7/1996	3/19/96[1]	3/19/96[2]	3/22/1996	4/26/1996	2/7/1997	1/20/1998	1/20/1998 (Dup)	5/14/1998	8/27/1998
Vinyl Chloride	<1000	U	<500	<500	<200	<2,000	<500	<1,000	21	20	22	<10	10
cis-1,2-Dichloroethene	<500	600	<500	<500	420	<1,000	260	280	160	200	170	100	150
1,1,1-Trichloroethane	<500	<500	550	750	590	<1,000	270	300	160	130	120	20	47
Trichloroethene	1,400	<500	<500	<500	<200	<1,000	160	<200	120	140	110	53	150
Tetrachloroethene	3,100	7,600	21,000	31,000	21,000	21,000	13,000	15,000	9,100	5,600	5,400	2,100	4,500
1, 1-Dichloroethane	<500	U	<500	U	U	U	<100	<200	6	4.0	<20	<10	5.1J
1, 1-Dichloroethene	<500	U	<500	U	U	U	<100	<200	12	7.0	<20	<10	<10
trans-1, 2-Dichloroethene	<500	U	<500	U	U	U	<100	<200	<1.0	2.0	<20	<10	<10
1,1,1,2-Tetrachloroethane	NA	U	NA	U	U	U	NA	NA	4.1	<1.0	<20	<10	<10

Halogenated Volatile Organics	12/4/1998	2/26/1999	2/26/1999 (Dup)	8/2/2001	8/2/2001 (Dup)	11/6/2001	11/6/2001 (Dup)	2/19/2002	5/15/2002	8/15/2002	8/21/2003	HRC Injection; November 2003	5/19/2004
Vinyl Chloride	13	<10	11	31	25	<10	<10	<10	5.5	<10	5.6		60
cis-1,2-Dichloroethene	150	120	130	440	370	260	240	140	110	500	290		5200
1,1,1-Trichloroethane	30	18	20	26	29	7.8J	7.1J	5.2J	20	13	29		20
Trichloroethene	150	87	86	320	340	130	120	67	34	180	170		170
Tetrachloroethene	3,600	2,700	2,700	4,700	5,500	2,300	2,300	1,300	670	2,500	3,900		58
1, 1-Dichloroethane	<10	<10	2.3	<10	3.6	<10	<10	<10	1.2J	<10	<10		14
1, 1-Dichloroethene	<10	<10	1.5	<10	3.5	<10	<10	<10	<2.0	<10	<10		7.0
trans-1, 2-Dichloroethene	<10	<10	1.0	<10	3.5	<10	<10	<10	<2.0	<10	<10		34
1,1,1,2-Tetrachloroethane	<10	<10	<1.0	<10	<10	<10	<10	<10	<2.0	<10	<10		<1.0

Notes:
1. Results shown only for compounds which were detected at or above the laboratory practical quantitation limit (PQL).
2. U = Indicates the compound was analyzed, but not detected.
3. J = Indicates an estimated value less than the lowest standard.
4. NA = Sample not analyzed for indicated compound.
5. All results are in micrograms per liter (ug/l, ppb).

TABLE 3

Well MW-3
Summary of Ground Water Sampling Analytical Results
Volatile Organic Compounds
Revonak Dry Cleaners Site No. 356021

	12/91	9/94	2/5/1996	3/7/1996	3/19/1996	2/7/1997	1/20/1998	5/14/1998	8/27/1998	12/4/1998	2/26/1999	8/2/2001	11/6/2001
Halogenated Volatile Organics													
Vinyl Chloride	<10.0	U	1.8	1.4	2.2	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	0.69J
cis-1,2-Dichloroethene	<5.0	10	7.0	7.9	12	3.8	7.0	7.2	11	10	6.4	12	9.3
1,1,1-Trichloroethane	<5.0	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3.0	<5.0	<1.0	<1.0	<1.0	<1.0	0.8J	0.8J	1.2	1.2	0.7J	1.1	1.1
Tetrachloroethene	15	<5.0	2.9	<1.0	8.6	0.5	0.7J	0.6J	1J	0.7J	0.5J	0.77J	<1.0
Aromatic Volatile Organics													
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	<1.0	1.0	<1.0	<1.0	0.7J	<1.0	<1.0
Benzene	<5.0	U	<0.5	NA	NA	NA	<1.0	<1.0	<1.0	0.5J	<1.0	<1.0	<1.0

	2/19/2002	5/15/2002	8/15/2002	8/21/2003	HRC Injection; November 2003	5/19/2004
Halogenated Volatile Organics						
Vinyl Chloride	<1.0	1.2	<1.0	1.7		1.8
cis-1,2-Dichloroethene	6.1	6.4	17	12		7.9
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		<1.0
Trichloroethene	0.78J	0.7J	1.2	1.2		1.4
Tetrachloroethene	<1.0	<1.0	0.7J	<1.0		0.6J
Aromatic Volatile Organics						
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0		<1.0
Benzene	<1.0	0.6J	0.9J	<1.0		0.6J,B

Notes:

1. Results shown only for compounds which were detected at or above the laboratory practical quantitation limit (PQL).
2. U = Indicates the compound was analyzed, but not detected.
3. J = Indicates an estimated value less than the lowest standard.
4. NA = Sample not analyzed for the indicated compound.
5. All results are in micrograms per liter (ug/l, ppb).

TABLE 4

Well MW-6
Summary of Ground Water Sampling Analytical Results
Volatile Organic Compounds
Revonak Dry Cleaners Site No. 356021

	1/20/1998	5/14/1998	8/26/1998	12/3/1998	2/25/1999	8/2/2001	11/6/2001	2/19/2002	5/15/2002	8/15/2002	8/21/2003	HRC Injection; November 2003	5/19/2004
Halogenated Volatile Organics													
Vinyl Chloride	5.0	1.4	12	3.6	12	13	24	2.5	<1.0	7.9	1.2		13
cis-1,2-Dichloroethene	35	24	91	76	66	85	460	89	21	83	19		75
Trichloroethene	14	7.9	24	20	8.4	12	96	34	8.9	13	5.6		2.9
Tetrachloroethene	41	46	53	42	23	26	56	29	19	24	20		4.5
Chloroethane	<1.0	<1.0	3.4	1.2	<1.0	<1.0	5.3	<1.0	<1.0	<1.0	<1.0		<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	1.1	1.0	1.0	0.94J	3.6	<1.0	<1.0	<1.0	<1.0		1.6
1,1 Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0		<1.0
Aromatic Volatile Organics													
Benzene	<1.0	<1.0	0.6J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
sec-Butylbenzene	<1.0	<1.0	1.3	<1.0	<1.0	0.7J	1.1	<1.0	<1.0	1.0	<1.0		<1.0

Notes:
1. Results shown only for compounds which were detected at or above the laboratory practical quantitation limit (PQL).
2. J= Indicates an estimated value less than the lowest standard.
3. All results are in micrograms per liter (ug/l, ppb).

ATTACHMENT 1

Laboratory Analytical Data

SAMPLE DATA SUMMARY PACKAGE

Alpha Geoscience
Clifton Park, NY
Project: New Paltz Plaza
STL Lab. #: 236499
Matrix: Water
1 of 1

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

SAMPLE INFORMATION
Date: 06/03/2004

Job Number.: 236499
Customer...: Alpha Geoscience
Attn.....: Tom Johnson

Project Number.....: 20000452
Customer Project ID....: NEW PALTZ PLAZA 95141
Project Description....: Alpha Geoscience

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
236499-1	MW-3	Water	05/19/2004	14:25	05/21/2004	10:10
236499-2	MW-6	Water	05/19/2004	14:20	05/21/2004	10:10
236499-3	MW-2	Water	05/19/2004	15:10	05/21/2004	10:10
236499-4	Trip Blank	Water	05/19/2004	00:00	05/21/2004	10:10

SEVERN TRENT STL
NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049
STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY CHRONICLE

Job Number: 236499

Date: 06/03/2004

CUSTOMER: Alpha Geoscience | PROJECT: NEW PALTZ PLAZA 9514 | ATTN: Tom Johnson

Lab ID: 236499-1 Client ID: MW-3 Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW846 5030(5mL	5030 5 mL Purge Prep	1	69311			
QA Services	Quality Assurance Services	1	69261			
SW846 8260B	Volatile Organics	1	69262			

Lab ID: 236499-2 Client ID: MW-6 Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW846 5030(5mL	5030 5 mL Purge Prep	1	69311			
QA Services	Quality Assurance Services	1	69261			
SW846 8260B	Volatile Organics	1	69262			

Lab ID: 236499-3 Client ID: MW-2 Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW846 5030(5mL	5030 5 mL Purge Prep	1	69311			
QA Services	Quality Assurance Services	1	69261			
SW846 8260B	Volatile Organics	1	69262			

Lab ID: 236499-4 Client ID: Trip Blank Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW846 5030(5mL	5030 5 mL Purge Prep	1	69311			
QA Services	Quality Assurance Services	1	69261			
SW846 8260B	Volatile Organics	1	69262			

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THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983.

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third Edition, September 1986 with all current revisions.

Federal Register, V.50 No.3, January 4, 1985.

Federal Register, V.49, No. 209, October 26, 1984.

"Methods for the Determination of Organic Compounds in Drinking Water EPA/600/4-88/039, December 1988.

Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography With Photoionization and Electrolytic Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268, Revision 2.0(1989).

EPA Method for the Determination of Gasoline Range Organics, Draft, REV. 5, 2/5/92.

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol. 1 , October 1995.

USEPA CLP SOW for Organics Analysis Low Concentration Water

USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration

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CASE NARRATIVE

Client: Alpha Geoscience
Date: 06/02/04
STL Lab No.: 236499
Page 1 of 1

Volatiles

Sample Dilution

Sample MW-2DL (236499-003DL) was diluted at the indicated amount due to compounds that exceed the linear calibration range.

Internal Standards

Sample MW-2 contains internal standard area counts outside the acceptable limits. As per the protocol, the sample was either re-analyzed or analyzed as a dilution.

Matrix Spike/Matrix Spike Duplicate

The matrix spike/ matrix spike duplicate was not performed on a sample from laboratory number 236499. The MS/MSD submitted is from another laboratory number that was analyzed at the same time as laboratory number 236499.

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-3

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-001

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3336.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
75-71-8	Dichlorodifluoromethane		U	1.0
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride	1.8		1.0
75-00-3	Chloroethane		U	1.0
75-69-4	Trichlorofluoromethane		U	1.0
75-09-2	Methylene Chloride	1.3		1.0
75-35-4	1,1-Dichloroethene		U	1.0
75-34-4	1,1-Dichloroethane		U	1.0
590-20-7	2,2-Dichloropropane		U	1.0
156-60-5	trans-1,2-Dichloroethylene		U	1.0
540-59-0	cis-1,2-Dichloroethene	7.9		1.0
67-66-3	Chloroform		U	1.0
563-58-6	1,1-Dichloropropene		U	1.0
107-06-2	1,2-Dichloroethane		U	1.0
74-97-5	Bromochloromethane		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
56-23-5	Carbon Tetrachloride		U	1.0
74-95-3	Dibromomethane		U	1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane		U	1.0
10061-01-5	cis-1,3-Dichloropropene		U	1.0
79-01-6	Trichloroethene	1.4		1.0
71-43-2	Benzene	0.6	J	1.0
142-28-9	1,3-Dichloropropane		U	1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
106-93-4	1,2-Dibromoethane (EDB)		U	1.0
75-25-2	Bromoform		U	1.0
127-18-4	Tetrachloroethene	0.6	J	1.0
630-20-6	1,1,1,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
100-42-5	Styrene		U	1.0
108-38-3	m,p-Xylene		U	1.0
95-47-6	o-Xylene		U	1.0
96-18-4	1,2,3-Trichloropropane		U	1.0

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-3

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-001

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3336.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
98-82-8	Isopropylbenzene		U	1.0
108-86-1	Bromobenzene		U	1.0
103-65-1	n-Propylbenzene		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
95-49-8	2-Chlorotoluene		U	1.0
106-43-4	4-Chlorotoluene		U	1.0
108-67-8	1,3,5-Trimethylbenzene		U	1.0
98-06-6	tert-Butylbenzene		U	1.0
95-63-6	1,2,4-Trimethylbenzene		U	1.0
135-98-8	sec-Butylbenzene		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0
99-87-6	p-Isopropyltoluene		U	1.0
106-46-7	1,4-Dichlorobenzene		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
104-51-8	n-Butylbenzene		U	1.0
96-12-8	1,2-Dibromo-3-chloropropane		U	1.0
87-68-3	Hexachlorobutadiene		U	1.0
120-82-1	1,2,4-Trichlorobenzene		U	1.0
91-20-3	Naphthalene		U	1.0
87-61-6	1,2,3-Trichlorobenzene		U	1.0

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-3

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-001

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3336.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	C10H12 isomer	23.45	6	J

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-6

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-002

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3337.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
75-71-8	Dichlorodifluoromethane		U	1.0
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride	13		1.0
75-00-3	Chloroethane		U	1.0
75-69-4	Trichlorofluoromethane		U	1.0
75-09-2	Methylene Chloride		U	1.0
75-35-4	1,1-Dichloroethene		U	1.0
75-34-4	1,1-Dichloroethane		U	1.0
590-20-7	2,2-Dichloropropane		U	1.0
156-60-5	trans-1,2-Dichloroethylene	1.6		1.0
540-59-0	cis-1,2-Dichloroethene	75		1.0
67-66-3	Chloroform		U	1.0
563-58-6	1,1-Dichloropropene		U	1.0
107-06-2	1,2-Dichloroethane		U	1.0
74-97-5	Bromochloromethane		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
56-23-5	Carbon Tetrachloride		U	1.0
74-95-3	Dibromomethane		U	1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane		U	1.0
10061-01-5	cis-1,3-Dichloropropene		U	1.0
79-01-6	Trichloroethene	2.9		1.0
71-43-2	Benzene		U	1.0
142-28-9	1,3-Dichloropropane		U	1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
106-93-4	1,2-Dibromoethane (EDB)		U	1.0
75-25-2	Bromoform		U	1.0
127-18-4	Tetrachloroethene	4.5		1.0
630-20-6	1,1,1,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
100-42-5	Styrene		U	1.0
108-38-3	m,p-Xylene		U	1.0
95-47-6	o-Xylene		U	1.0
96-18-4	1,2,3-Trichloropropane		U	1.0

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-6

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-002

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3337.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
98-82-8	Isopropylbenzene		U	1.0
108-86-1	Bromobenzene		U	1.0
103-65-1	n-Propylbenzene		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
95-49-8	2-Chlorotoluene		U	1.0
106-43-4	4-Chlorotoluene		U	1.0
108-67-8	1,3,5-Trimethylbenzene		U	1.0
98-06-6	tert-Butylbenzene		U	1.0
95-63-6	1,2,4-Trimethylbenzene		U	1.0
135-98-8	sec-Butylbenzene		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0
99-87-6	p-Isopropyltoluene		U	1.0
106-46-7	1,4-Dichlorobenzene		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
104-51-8	n-Butylbenzene		U	1.0
96-12-8	1,2-Dibromo-3-chloropropane		U	1.0
87-68-3	Hexachlorobutadiene		U	1.0
120-82-1	1,2,4-Trichlorobenzene		U	1.0
91-20-3	Naphthalene		U	1.0
87-61-6	1,2,3-Trichlorobenzene		U	1.0

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-002

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3337.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. _____ Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-2

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-003

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3338.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
75-71-8	Dichlorodifluoromethane		U	1.0
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride	60		1.0
75-00-3	Chloroethane		U	1.0
75-69-4	Trichlorofluoromethane		U	1.0
75-09-2	Methylene Chloride		U	1.0
75-35-4	1,1-Dichloroethene	7.0		1.0
75-34-4	1,1-Dichloroethane	14		1.0
590-20-7	2,2-Dichloropropane		U	1.0
156-60-5	trans-1,2-Dichloroethylene	34		1.0
540-59-0	cis-1,2-Dichloroethene	4400	E	1.0
67-66-3	Chloroform		U	1.0
563-58-6	1,1-Dichloropropene		U	1.0
107-06-2	1,2-Dichloroethane		U	1.0
74-97-5	Bromochloromethane		U	1.0
71-55-6	1,1,1-Trichloroethane	20		1.0
56-23-5	Carbon Tetrachloride		U	1.0
74-95-3	Dibromomethane		U	1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane		U	1.0
10061-01-5	cis-1,3-Dichloropropene		U	1.0
79-01-6	Trichloroethene	170	E	1.0
71-43-2	Benzene	0.7	J	1.0
142-28-9	1,3-Dichloropropane		U	1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
106-93-4	1,2-Dibromoethane (EDB)		U	1.0
75-25-2	Bromoform		U	1.0
127-18-4	Tetrachloroethene	58		1.0
630-20-6	1,1,1,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
100-42-5	Styrene		U	1.0
108-38-3	m,p-Xylene		U	1.0
95-47-6	o-Xylene		U	1.0
96-18-4	1,2,3-Trichloropropane		U	1.0

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-2

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-003

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3338.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
98-82-8	Isopropylbenzene		U	1.0
108-86-1	Bromobenzene		U	1.0
103-65-1	n-Propylbenzene		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
95-49-8	2-Chlorotoluene		U	1.0
106-43-4	4-Chlorotoluene		U	1.0
108-67-8	1,3,5-Trimethylbenzene		U	1.0
98-06-6	tert-Butylbenzene		U	1.0
95-63-6	1,2,4-Trimethylbenzene		U	1.0
135-98-8	sec-Butylbenzene		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0
99-87-6	p-Isopropyltoluene		U	1.0
106-46-7	1,4-Dichlorobenzene		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
104-51-8	n-Butylbenzene		U	1.0
96-12-8	1,2-Dibromo-3-chloropropane		U	1.0
87-68-3	Hexachlorobutadiene		U	1.0
120-82-1	1,2,4-Trichlorobenzene		U	1.0
91-20-3	Naphthalene		U	1.0
87-61-6	1,2,3-Trichlorobenzene		U	1.0

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-2

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-003

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3338.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-2DL

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-003DL

Sample wt/vol: 0.02 (g/ml) ML Lab File ID: W3344.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
75-71-8	Dichlorodifluoromethane		U	250
74-87-3	Chloromethane		U	250
74-83-9	Bromomethane		U	250
75-01-4	Vinyl Chloride		U	250
75-00-3	Chloroethane		U	250
75-69-4	Trichlorofluoromethane		U	250
75-09-2	Methylene Chloride		U	250
75-35-4	1,1-Dichloroethene		U	250
75-34-4	1,1-Dichloroethane		U	250
590-20-7	2,2-Dichloropropane		U	250
156-60-5	trans-1,2-Dichloroethylene		U	250
540-59-0	cis-1,2-Dichloroethene	5200	D	250
67-66-3	Chloroform		U	250
563-58-6	1,1-Dichloropropene		U	250
107-06-2	1,2-Dichloroethane		U	250
74-97-5	Bromochloromethane		U	250
71-55-6	1,1,1-Trichloroethane		U	250
56-23-5	Carbon Tetrachloride		U	250
74-95-3	Dibromomethane		U	250
75-27-4	Bromodichloromethane		U	250
78-87-5	1,2-Dichloropropane		U	250
10061-01-5	cis-1,3-Dichloropropene		U	250
79-01-6	Trichloroethene	240	JD	250
71-43-2	Benzene		U	250
142-28-9	1,3-Dichloropropane		U	250
124-48-1	Dibromochloromethane		U	250
10061-02-6	trans-1,3-Dichloropropene		U	250
79-00-5	1,1,2-Trichloroethane		U	250
106-93-4	1,2-Dibromoethane (EDB)		U	250
75-25-2	Bromoform		U	250
127-18-4	Tetrachloroethene		U	250
630-20-6	1,1,1,2-Tetrachloroethane		U	250
108-88-3	Toluene		U	250
108-90-7	Chlorobenzene		U	250
100-41-4	Ethylbenzene		U	250
100-42-5	Styrene		U	250
108-38-3	m,p-Xylene		U	250
95-47-6	o-Xylene		U	250
96-18-4	1,2,3-Trichloropropane		U	250

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-2DL

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-003DL

Sample wt/vol: 0.02 (g/ml) ML Lab File ID: W3344.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
98-82-8	Isopropylbenzene		U	250
108-86-1	Bromobenzene		U	250
103-65-1	n-Propylbenzene		U	250
79-34-5	1,1,2,2-Tetrachloroethane		U	250
95-49-8	2-Chlorotoluene		U	250
106-43-4	4-Chlorotoluene		U	250
108-67-8	1,3,5-Trimethylbenzene		U	250
98-06-6	tert-Butylbenzene		U	250
95-63-6	1,2,4-Trimethylbenzene		U	250
135-98-8	sec-Butylbenzene		U	250
541-73-1	1,3-Dichlorobenzene		U	250
99-87-6	p-Isopropyltoluene		U	250
106-46-7	1,4-Dichlorobenzene		U	250
95-50-1	1,2-Dichlorobenzene		U	250
104-51-8	n-Butylbenzene		U	250
96-12-8	1,2-Dibromo-3-chloropropane		U	250
87-68-3	Hexachlorobutadiene		U	250
120-82-1	1,2,4-Trichlorobenzene		U	250
91-20-3	Naphthalene		U	250
87-61-6	1,2,3-Trichlorobenzene		U	250

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-004

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3341.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
75-71-8	Dichlorodifluoromethane		U	1.0
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride		U	1.0
75-00-3	Chloroethane		U	1.0
75-69-4	Trichlorofluoromethane		U	1.0
75-09-2	Methylene Chloride		U	1.0
75-35-4	1,1-Dichloroethene		U	1.0
75-34-4	1,1-Dichloroethane		U	1.0
590-20-7	2,2-Dichloropropane		U	1.0
156-60-5	trans-1,2-Dichloroethylene		U	1.0
540-59-0	cis-1,2-Dichloroethene		U	1.0
67-66-3	Chloroform		U	1.0
563-58-6	1,1-Dichloropropene		U	1.0
107-06-2	1,2-Dichloroethane		U	1.0
74-97-5	Bromochloromethane		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
56-23-5	Carbon Tetrachloride		U	1.0
74-95-3	Dibromomethane		U	1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane		U	1.0
10061-01-5	cis-1,3-Dichloropropene		U	1.0
79-01-6	Trichloroethene		U	1.0
71-43-2	Benzene	0.6	J	1.0
142-28-9	1,3-Dichloropropane		U	1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
106-93-4	1,2-Dibromoethane (EDB)		U	1.0
75-25-2	Bromoform		U	1.0
127-18-4	Tetrachloroethene		U	1.0
630-20-6	1,1,1,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
100-42-5	Styrene		U	1.0
108-38-3	m,p-Xylene		U	1.0
95-47-6	o-Xylene		U	1.0
96-18-4	1,2,3-Trichloropropane		U	1.0

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-004

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3341.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
98-82-8	Isopropylbenzene		U	1.0
108-86-1	Bromobenzene		U	1.0
103-65-1	n-Propylbenzene		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
95-49-8	2-Chlorotoluene		U	1.0
106-43-4	4-Chlorotoluene		U	1.0
108-67-8	1,3,5-Trimethylbenzene		U	1.0
98-06-6	tert-Butylbenzene		U	1.0
95-63-6	1,2,4-Trimethylbenzene		U	1.0
135-98-8	sec-Butylbenzene		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0
99-87-6	p-Isopropyltoluene		U	1.0
106-46-7	1,4-Dichlorobenzene		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
104-51-8	n-Butylbenzene		U	1.0
96-12-8	1,2-Dibromo-3-chloropropane		U	1.0
87-68-3	Hexachlorobutadiene		U	1.0
120-82-1	1,2,4-Trichlorobenzene		U	1.0
91-20-3	Naphthalene		U	1.0
87-61-6	1,2,3-Trichlorobenzene		U	1.0

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 236499

Matrix: (soil/water) WATER Lab Sample ID: 236499-004

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W3341.D

Level: (low/med) LOW Date Received: 5/21/2004

% Moisture: not dec. Date Analyzed: 5/30/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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ANALYTICAL REPORT

JOB NUMBER: 236500

Prepared For:

Alpha Geoscience
679 Plank Road
Clifton Park, NY 12065

Attention: Tom Johnson

Date: 06/01/2004

Signature

6/1/04
Date

Name: Richard E. Bayer

Title: Project Manager

E-Mail: rickbayer@stl-inc.com

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SAMPLE INFORMATION

Date: 06/01/2004

Job Number.: 236500
Customer...: Alpha Geoscience
Attn.....: Tom Johnson

Project Number.....: 20000452
Customer Project ID....: NEW PALTZ PLAZA 95141
Project Description....: Alpha Geoscience

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
236500-1	MW-3	Water	05/19/2004	14:25	05/21/2004	10:10
236500-2	MW-6	Water	05/19/2004	14:50	05/21/2004	10:10
236500-3	MW-2	Water	05/19/2004	15:10	05/21/2004	10:10

STL Newburgh
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Newburgh, NY 12550
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LABORATORY TEST RESULTS

Job Number: 236500

Date: 06/01/2004

CUSTOMER: Alpha Geoscience PROJECT: NEW PALTZ PLAZA 9514 ATTN: Tom Johnson

Customer Sample ID: MW-3
Date Sampled.....: 05/19/2004
Time Sampled.....: 14:25
Sample Matrix.....: Water

Laboratory Sample ID: 236500-1
Date Received.....: 05/21/2004
Time Received.....: 10:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 200.7	Acid Digestion (ICP)	Complete				Text	05/24/04	ne
EPA 200.7	Acid Digestion (ICP), Diss.	Complete				Text	05/24/04	ne
SM18 375.4	Sulfate	27.0			10	mg/L	05/25/04	bg
LAC 11107041A	Nitrate + Nitrite as N	0.200	U		0.200	mg/L	05/26/04	jpp
EPA 200.7	Metals Analysis (ICP)							
	Iron (Fe)	630			100	ug/L	05/25/04	mad
	Iron (Fe), Diss.	100	U		100	ug/L	05/25/04	mad
SM18 5310C	Total Organic Carbon (TOC)							
	Organic Carbon, Total (TOC)	6.19			1.00	mg/L	05/27/04	mad

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 236500

Date: 06/01/2004

CUSTOMER: Alpha Geoscience PROJECT: NEW PALTZ PLAZA 9514 ATTN: Tom Johnson

Customer Sample ID: MW-6
Date Sampled.....: 05/19/2004
Time Sampled.....: 14:50
Sample Matrix.....: Water

Laboratory Sample ID: 236500-2
Date Received.....: 05/21/2004
Time Received.....: 10:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 200.7	Acid Digestion (ICP)	Complete				Text	05/24/04	ne
EPA 200.7	Acid Digestion (ICP), Diss.	Complete				Text	05/24/04	ne
SM18 375.4	Sulfate	8.0			5.0	mg/L	05/25/04	bg
LAC 11107041A	Nitrate + Nitrite as N	0.200	U		0.200	mg/L	05/26/04	jpp
EPA 200.7	Metals Analysis (ICP)							
	Iron (Fe)	3530			100	ug/L	05/25/04	mad
	Iron (Fe), Diss.	731			100	ug/L	05/25/04	mad
SM18 5310C	Total Organic Carbon (TOC)							
	Organic Carbon, Total (TOC)	69.9			1.00	mg/L	05/27/04	mad

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 236500

Date: 06/01/2004

CUSTOMER: Alpha Geoscience

PROJECT: NEW PALTZ PLAZA 9514

ATTN: Tom Johnson

Customer Sample ID: MW-2
Date Sampled.....: 05/19/2004
Time Sampled.....: 15:10
Sample Matrix.....: Water

Laboratory Sample ID: 236500-3
Date Received.....: 05/21/2004
Time Received.....: 10:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 200.7	Acid Digestion (ICP)	Complete				Text	05/24/04	ne
EPA 200.7	Acid Digestion (ICP), Diss.	Complete				Text	05/24/04	ne
SM18 375.4	Sulfate	5.0	U		5.0	mg/L	05/25/04	bg
LAC 11107041A	Nitrate + Nitrite as N	0.200	U		0.200	mg/L	05/26/04	jpp
EPA 200.7	Metals Analysis (ICP)							
	Iron (Fe)	17600			100	ug/L	05/25/04	mad
	Iron (Fe), Diss.	19300			100	ug/L	05/25/04	mad
SM18 5310C	Total Organic Carbon (TOC)							
	Organic Carbon, Total (TOC)	221			1.00	mg/L	05/27/04	mad

* In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 236500 Date: 06/01/2004

CUSTOMER: Alpha Geoscience PROJECT: NEW PALTZ PLAZA 9514 ATTN: Tom Johnson

Lab ID: 236500-1 Client ID: MW-3 Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	68668		05/24/2004 0925	
EPA 200.7	Metals Analysis (ICP)	1	68907	68668	05/25/2004 1846	
EPA 200.7	Metals Analysis (ICP)	1	68907	68668	05/25/2004 1921	
LAC 11107041A	Nitrate-Nitrite	1	68996		05/26/2004 2331	
SM18 375.4	Sulfate, Turbimetric	1	68940		05/25/2004 0940	
SM18 5310C	Total Organic Carbon (TOC)	1	69207		05/27/2004 0000	

Lab ID: 236500-2 Client ID: MW-6 Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	68668		05/24/2004 0925	
EPA 200.7	Metals Analysis (ICP)	1	68907	68668	05/25/2004 1926	
EPA 200.7	Metals Analysis (ICP)	1	68907	68668	05/25/2004 1931	
LAC 11107041A	Nitrate-Nitrite	1	68996		05/26/2004 2331	
SM18 375.4	Sulfate, Turbimetric	1	68940		05/25/2004 0940	
SM18 5310C	Total Organic Carbon (TOC)	1	69207		05/27/2004 0000	

Lab ID: 236500-3 Client ID: MW-2 Date Recvd: 05/21/2004 Sample Date: 05/19/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	68668		05/24/2004 0925	
EPA 200.7	Metals Analysis (ICP)	1	68907	68668	05/25/2004 1935	
EPA 200.7	Metals Analysis (ICP)	1	68907	68668	05/25/2004 1940	
LAC 11107041A	Nitrate-Nitrite	1	68996		05/26/2004 2331	
SM18 375.4	Sulfate, Turbimetric	1	68940		05/25/2004 0940	
SM18 5310C	Total Organic Carbon (TOC)	1	69207		05/27/2004 0000	

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The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements will be noted in a case narrative.
Report Comments

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

2) Soil, sediment and sludge sample results are reported on a "dry weight" basis.

3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Glossary of flags and qualifiers.

Inorganic Qualifiers (Q-Column)

U	Indicates that the compound was analyzed for but not detected.
1	Result fails applicable drinking water standards.
*	Duplicate analysis not within control limits.
N	Spiked sample recovery not within control limits.
E	Indicates an estimated value because of the presence of interferences.
W	Post digestion spike for furnace AA analysis is out of the control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
+	Correlation coefficient for the MSA is less than 0.995
B	The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

Organic Qualifiers (Q-Column)

U	Indicates that the compound was analyzed for but not detected.
J	Indicates an estimated value. This compound meets the identification criteria, but the result is less than the specified detection limit.
B	Indicates that the analyte was found in both the sample and its associated laboratory blank.
D	Indicates all compounds identified in an analysis at a secondary dilution factor.
E	Indicates that the analyte in an analysis has exceeded the linear calibration range.

Glossary of Terms

Surrogates (Surrogate Standards) - an organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process. For semi-volatiles, volatiles and pesticides/Arochlors, surrogate compounds are added to every blank, sample, matrix sample, matrix spike, matrix sample duplicate, matrix spike blank, and standard. These are used to evaluate analytical efficiency by measuring recovery. Poor surrogate recovery may indicate a problem with the sample composition.

Matrix Spike - an aliquot of a sample (water or soil) fortified (spiked) with known quantities of specific compounds (target analytes) and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery. The spiking occurs prior to sample preparation and analysis. Poor spike recovery may indicate a problem with the sample composition.

Internal Standards - an organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process. For GC/MS semi-volatiles and volatiles, internal standards are added to every blank, sample, matrix spike, matrix spike duplicate, matrix spike blank, and standard. Internal standard responses outside of established limits will adversely affect the quantitation and final concentration of target compounds.

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SEVERN TRENT **STL**

CHAIN OF CUSTODY

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Newburgh, NY 12550
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FAX (845) 562-0841

STL Newburgh

CUSTOMER NAME: Alpha Geoscience
ADDRESS: 679 Plank Road
CITY, STATE, ZIP: Clifton Park NY 12065
NAME OF CONTACT: Tom Johnson
PHONE NO.: (518) 348-6995
PROJECT LOCATION: New Paltz Plaza
PROJECT NUMBER / PO NO.: 95141

REPORT TYPE
STANDARD ☑ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER ____

TURNAROUND
☐ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
236500
SAMPLE TEMP. 3.4° C
SAMPLE REC'D ON ICE Y ✓ N ____
pH CHECK Y ✓ N ____
CHLORINE (RESIDUAL) Y ____ N ✓
REVIEWED BY: ____

NY PUBLIC WATER SUPPLIES
SOURCE ID ____
ELRP TYPE ____
FEDERAL ID ____

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

STL #	SAMPLING DATE	TIME	AM/PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL TOC	Liter Amber HCL	250ml Amber Sulfuric NO_3-N	Liter Amber Organic Washed	250ml Plastic Nitric Acid Fe	250ml Plastic Sodium Hydroxide	250ml Plastic SO_4	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	8 oz. Soil	2 oz. Qorpak	250ml Plastic NAOH/ZN ACC	ANALYSIS REQUESTED
	5/18/04	2:25		✓		GW	MW-3	6	2		1		2		1							TOC; SO_4; NO_3-N; Total Fe; Field Filt Fe
	5/19/04	2:50		✓		GW	MW-6	6	2		1		2		1							TOC; SO_4; NO_3-N; Total Fe; Field Filt Fe
	5/19/04	3:10		✓		GW	MW-2	6	2		1		2		1							TOC; SO_4; NO_3-N; Total Fe; Field Filtered Fe

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
SAMPLED BY Kevin Phelan	Alpha Geoscience	5/19/04	2:25-3:10	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Alpha Geoscience	5/20/04	2:00pm To Airborne		STL	5/21/04	10:05

COMMENTS: Filtered Fe done in the field

SEVERN TRENT **STL**

STL Newburgh

CHAIN OF CUSTODY

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CUSTOMER NAME: Alpha Geoscience
ADDRESS: 679 Plank Road
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PROJECT LOCATION: New Paltz Plaza
PROJECT NUMBER / PO NO.: 95141

REPORT TYPE
STANDARD ☑ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER ____

TURNAROUND
☐ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
236800
SAMPLE TEMP. 3.4° C
SAMPLE REC'D ON ICE Y ✓ N ____
pH CHECK Y ✓ N ____
CHLORINE (RESIDUAL) Y ____ N ✓
REVIEWED BY: ____

NY PUBLIC WATER SUPPLIES
SOURCE ID ____
ELRP TYPE ____
FEDERAL ID ____

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

STL #	SAMPLING DATE	TIME AM/PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL TOC	Liter Amber HCL	250ml Amber Sulfuric NO_3N	Liter Amber Organic Washed	250ml Plastic Nitric Acid Fe	250ml Plastic Sodium Hydroxide SO_4	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	8 oz. Soil	2 oz. Qorpak	250ml Plastic NAOH/ ZN ACC	ANALYSIS REQUESTED
	5/19/04	2:25		✓	GW	mw-3	6	2		1		2	1								TOC; SO_4; NO_3-N; Total Fe; Field Filt Fe
	5/19/04	2:50		✓	GW	mw-6	6	2		1		2	1								TOC; SO_4; NO_3-N; Total Fe; Field Filt Fe
	5/19/04	3:10		✓	GW	mw-2	6	2		1		2	1								TOC; SO_4; NO_3-N; Total Fe; Field Filtered Fe

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
SAMPLED BY Kevin Phelan	Alpha Geoscience	5/19/04	2:25-3:10	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	Alpha Geoscience	5/20/04	2:00pm TO Airborne	RECEIVED BY	STL	5/21/04	10:05

COMMENTS: Filtered Fe done in the field