JULY 2002
OPERATION AND MAINTENANCE
MONTHLY REPORT

OCTOBER 1, 2002

ACTIVE INDUSTRIAL UNIFORM SITE
67 WEST MONTAUK HIGHWAY
VILLAGE OF LINDENHURST, NEW YORK

NYSDEC CONTRACT NO. D004134

JULY 2002
OPERATION AND MAINTENANCE
MONTHLY REPORT

OCTOBER 1, 2002

PREPARED FOR

New York State Department of
Environmental Conservation
(NYSDEC)

PREPARED BY

Blue Water Environmental, Inc.
1610 New Highway
Farmingdale, New York
11735

Mark P. Soliman, Project Manager/Engineer

Michael J. Posillico, President

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1. INTRODUCTION

This is the 7th monthly report prepared for the New York State Department of Environmental Conservation (NYSDEC) in accordance with NYSDEC contract no. D004134 for the operation of the groundwater treatment system at the Active Industrial Site located at 67 West Montauk Highway in Lindenhurst, New York. On August 15, 2002 Blue Water Environmental, Inc. (Blue Water) completed the monthly Operation and Maintenance (O&M) monitoring and sample collection of the Active Industrial groundwater pump and treatment system in accordance with the referenced contract. The following sections briefly describe the groundwater treatment system operation during the July 2002 operation period.

2. OPERATIONAL DESCRIPTION

The groundwater treatment system was in operation for 37 days during the July 2002 reporting period (July 10, 2002 to August 15, 2002). During this operation period, both wells (RW-1 and RW-2) and both air stripping towers (in-series) were on-line.

The discharge flow meter recorded approximately 8,849,325 gallons of water treated by the system during the July 2002 reporting period with an average system flow of 168 gallons per minute (gpm). The RW-1 and RW-2 flow meters recorded an average recovery flow of 78 gpm and 89 gpm, respectively.

The following is a summary of system operation to date:

- **Total Water Treated to Date:** **53,294,889 gallons**
- **Total Mass of VOCs Recovered to Date:** **186 pounds**
- **Mass of VOCs Removed in July 2002 Period:** **37 pounds**

3. SUMMARY OF ON-SITE MONTHLY ACTIVITIES

During the operating month of July 2002, the following tasks were performed:

- July 31, 2002: The system shut down due to a general alarm triggered by the cartridge filter. The cartridge filter was taken off-line and the system was restarted without further disturbances.

- August 15, 2002: Influent and Effluent water samples were collected and analyzed for volatile organic compounds (VOCs). Effluent water samples were also collected and analyzed for RCRA Metals, alkalinity, residual chlorine, pH, chemical oxygen demand (COD), total dissolved solids (TDS), and total suspended

solids (TSS). The samples were submitted to Environmental Testing Laboratory, Inc. of Farmingdale, New York. Carbon influent and midfluent air samples were collected and analyzed for VOCs under method 6021 by Microseeps and discharge air samples were collected and analyzed for VOCs under TO-14 by Air Toxics Ltd. In addition, maintenance was performed on the pumps, which included greasing.

4. SUMMARY OF FIELD DATA AND ANALYTICAL RESULTS

The July ground-water influent analytical results indicate that the system is successfully recovering and treating approximately 0.042 pounds per hour of volatile organic compounds (VOCs). The in-series tower air stripping system is removing approximately 100% of the contaminant mass from the water into the vapor stream. The system cumulative mass removal since startup is approximately 186 pounds of VOCs.

There was an exceedance of manganese at 2.55 milligrams per liter (mg/L) in the treated water discharge vs. the NYSDEC effluent limit of 2.0 mg/L. In addition, there was an exceedance of TSS at 74 mg/L vs. the NYSDEC effluent limit of 20 mg/L.

Table 1 summarizes the process water analytical data, Table 2 summarizes the process air analytical data, Table 3 summarizes operational parameters collected during the July 2002 O&M monitoring and sampling event, Table 4 summarizes the TO-14 effluent vapor sample data, and Table 5 summarizes the VOC effluent discharge rates. Laboratory analytical data has been included in Appendices A and B.

Table 1. Summary of Process Water Analytical Data, July 2002 Sampling Event, Active Industrial Uniform Site, 67 West Montauk H
Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Detection Limit	NYSDEC Effluent Limits	Sample ID/Port: Sample Location: Date Collected:	INFLUENT INF. HEADER 8/15/2002	EFFLUENT DISCHARGE 8/15/2002
Volatile Organic Compounds (ug/L)					
Trichloroethene	0.36	10		86.3	ND
Tetrachloroethene	1.1	4		195	ND
c-1,2-Dichloroethene	2.4	10		202	1.2
t-1,2-Dichloroethene	0.31			1.4	ND
1,1-Dichloroethene	0.27			ND	ND
1,1,1-Trichloroethane	0.26	5		5.7	ND
Total Xylene	--	5		1.2	ND
Vinyl Chloride	0.23	10		ND	ND
1,1-Dichloroethane	0.3	NL		1.8	ND
1,2,4-Trimethylbenzene	0.17	NL		0.94	ND
Methyl t-butyl ether	0.18	NL		3.6	1.3
Naphthalene	0.29	NL		1.1	ND
Sum of VOC Constituents				499.0	2.5
Inorganic Compounds mg/L					
Iron	0.0098	4		--	0.13
Manganese	0.002	2		--	**2.55**
TDS	9.92	Monitor		--	4040
TSS	4.58	20		--	**74**
Aluminum	0.01	4		--	0.023
Arsenic	0.0036	0.14		--	ND
Cadmium	0.00024	0.03		--	0.0005
Copper	0.0028	0.038		--	0.0048
Nickel	0.001	0.065		--	0.0016
Silver	0.0043	0.009		--	ND
Zinc	0.0057	0.37		--	0.019
Antimony	0.0016	NL		--	0.029
Barium	0.0007	NL		--	0.035
Calcium	0.038	NL		--	97.8
Chromium	0.0032	NL		--	ND
Cobalt	0.00024	NL		--	0.0006
Lead	0.002	NL		--	ND
Magnesium	0.005	NL		--	138
Mercury	0.00002	NL		--	ND
Potassium	0.046	NL		--	44.5
Residual Chlorine	NA	NA		--	ND
Selenium	0.003	NL		--	ND
Sodium	0.071	NL		--	1080
Thallium	0.0024	NL		--	0.016
Vanadium	0.0007	NL		--	ND

Table 1. Summary of Process Water Analytical Data, July 2002 Sampling Event, Active Industrial Uniform Site, 67 West Montauk H
Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Detection Limit	NYSDEC Effluent Limits	Sample ID/Port: Sample Location: Date Collected:	INFLUENT INF. HEADER 8/15/2002	EFFLUENT DISCHARGE 8/15/2002
General Chemistry					
COD, dissolved (mg/L)	4.8	NA		--	61.4
Conductivity, dissolved at 25°C (ms/cm)	NA	NA		6.62	6.74
Turbidity (NTU)	NA	NA		4	3
pH (s.u.)	0.01	6 to 9		5.98	6.32
Alkalinity (mg/L)	0.28	NA		--	58
Dissolved Oxygen (mg/L)	NA	NA		4.18	8.01

Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding the detection lir
A complete list of parameters is included in the Analytical Reports located in Appendix A.

** Analysis was performed by Environmental Testing Laboratories, Inc. of Farmingdale, New York

B Compound was also detected in Laboratory Method Blank.

ug/L Micrograms per liter.

mg/L Milligrams per liter.

s.u. Standard pH units.

TDS Total Dissolved Solids

TSS Total Suspended Solids

ms/cm Millisiemens per centimeter.

ND Not detected above detection limits

Sample not analyzed for specific parameter

Table 2. Summary of Process Vapor Analytical Data, July 2002 Sampling Event, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134

Constituent: Units as noted	Detection Limit	Sample ID/Port: Sample Location: Date Collected:	INFLUENT TO CARBON 8/15/2002	MIDFLUENT TO CARBON 8/15/2002
VOCs - 601/602 (ppm_v):				
cis-1,2-Dischloroethene	0.01		0.68	ND
1,1,1-Trichloroethane	0.005		0.014	ND
Tetrachloroethene	0.005		0.32	ND
Trichloroethene	0.005		0.17	ND

Notes:

* Only parameters that have concentrations exceeding the detection limits have been included above. A complete list of parameters is included in the Analytical Reports located in Appendix A.

** Analysis was performed by Microseeps, Inc. of Pittsburgh, Pennsylvania

ppm_v Parts per million by volume

ND Not detected over method detection limits.

Table 3. OPERATION & MAINTENANCE FORM, Active Industrial Uniform Site, Lindenhurst, New York, NYSDEC Contract No. D004134.

DATE:	12/21/2001	1/30/2002	3/4/2002	4/5/2002	5/21/2002	6/10/2002	7/9/2002	8/15/2002
TECHNICIAN:	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN
WATER								
RW-1 Flow (gpm)	90	80	79.4	81	80.6	79.1	80.02	77.8
RW-1 Total (gallons)	36,300	3,972,000	7,739,697	10,843,349	15,129,285	17,333,260	20,248,498	24,392,360
RW-2 Flow (gpm)	115	100	102	100.7	100.18	100	91.45	89.1
RW-2 Total (gallons)	40,810	4,959,775	9,718,481	13,679,048	17,852,170	20,605,762	24,106,302	28,886,434
RW-1 Pressure (psi)	16.5	21	20	21	22	22	22	22
RW-2 Pressure (psi)	17	32	30	32	33	18	23	22
Combined Pressure (psi)	14	13.5	14	14	14	14	14	14
P-1 Pressure (psi)	14	14	14	14	13	13	13	13
P-2 Pressure (psi)	24	12	27	14	12	12	12	14
Filter in Pressure (psi)	---	---	28	28	27	28	0	16
Filter out Pressure (psi)	---	---	11	11	12	12	0	10
Effluent Flow (gpm)	197	182	184	192	180.4	177.1	171.58	168
Effluent Total (gallons)	---	8,980,610	17,577,514	24,708,172	33,158,338	38,099,669	44,445,564	53,294,889
Midfluent Vacuum (IWC)	5.5	0	0	0	0	0	0	0
Blower Influent Vacuum (IWC)	10.5	13	13	12	12	12	10	11
Blower Effluent Pressure (IWC)	---	5	5	3	8	8	5	5
Carbon 1 Pressure (IWC)	7	5	4	4	6	6	5	5
Carbon 1 Temperature (F)	65	70	60	64	79	79	84	83
Carbon 2 Pressure (IWC)	4	3	5	2	3	3	3	3
Carbon 2 Temperature (F)	65	65	60	58	79	79	82	81
NOTES								
Cartridge Filter Bypassed	N	Y	N	N	N	N	N	N
Lead Carbon Changeout	N	N	N	Y	N	N	N	N
Lag Carbon Changeout	N	N	N	N	N	N	N	N
Water in Sump	Y	Y	Y	N	N	N	N	N
Acid Wash Performed	N	N	N	N	N	N	N	N
Air Samples Collected	Y	Y	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N	N	N

Table 4. Summary of TO-14 Effluent Vapor Sample Data, July 2002 Sampling Event, Active Industrial Uniform Site
67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134

Compound	8/15/02 [Effluent] (ppb_v)	Reporting Limit (ppb_v)
Freon 12	ND	0.68
Freon 114	ND	0.68
Chloromethane	ND	0.68
Vinyl Chloride	**6.0**	0.68
Bromomethane	ND	0.68
Chloroethane	ND	0.68
Freon 11	ND	0.68
1,1-Dichloroethene	ND	0.68
Freon 113	ND	0.68
Methylene Chloride	**1.5**	0.68
1,1-Dichloroethane	**1.2**	0.68
cis-1,2-Dichloroethene	**52**	0.68
Chloroform	ND	0.68
1,1,1-Trichloroethane	ND	0.68
Carbon Tetrachloride	ND	0.68
Benzene	ND	0.68
1,2-Dichloroethane	ND	0.68
Trichloroethene	ND	0.68
1,2-Dichloropropane	ND	0.68
cis-1,3-Dichloropropene	ND	0.68
Toluene	ND	0.68
trans-1,3-Dichloropropene	ND	0.68
1,1,2-Trichloroethane	ND	0.68
Tetrachloroethene	ND	0.68
Ethylene Dibromide	ND	0.68
Chlorobenzene	ND	0.68
Ethyl Benzene	ND	0.68
m,p-Xylene	ND	0.68
o-Xylene	ND	0.68
Styrene	ND	0.68
1,1,2,2-Tetrachloroethane	ND	0.68
1,3,5-Trimethylbenzene	ND	0.68
1,2,4-Trimethylbenzene	ND	0.68
1,3-Dichlorobenzene	ND	0.68
1,4-Dichlorobenzene	ND	0.68
Chlorotoluene	ND	0.68
1,2-Dichlorobenzene	ND	0.68
1,2,4-Trichlorobenzene	ND	0.68
Hexachlorobutadiene	ND	0.68

Table 4. Summary of TO-14 Effluent Vapor Sample Data, July 2002 Sampling Event, Active Industrial Uniform Site
67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134

Compound	8/15/02 [Effluent] (ppb_v)	Reporting Limit (ppb_v)
Propylene	ND	2.7
1,3 Butadiene	ND	2.7
Acetone	ND	2.7
Carbon Disulfide	ND	2.7
2-Propanol	ND	2.7
trans-1,2-Dichloroethene	ND	2.7
Vinyl Acetate	ND	2.7
2-Butanone (Methyl Ethyl Ketone)	ND	2.7
Hexane	ND	2.7
Tetrahydrofuran	ND	2.7
Cyclohexane	ND	2.7
1,4-Dioxane	ND	2.7
Bromodichloromethane	ND	2.7
4-Methyl-2-pentanone	ND	2.7
2-Hexanone	ND	2.7
Dibromochloromethane	ND	2.7
Bromoform	ND	2.7
4-Ethyltoluene	ND	2.7
Ethanol	ND	2.7
Methyl tert-butyl Ether	ND	2.7
Heptane	ND	2.7
TOTAL VOCS:	**60.70 ppb_v**	
	0.061 ppm_v	

ND	Compound not detected.
ppb_v	Parts per billion by volume.
ppm_v	Parts per million by volume.
VOCs	Volatile organic compounds.

Table 5. Summary of Vapor Effluent Discharge Rates, July 2002 Sampling Event, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Cas. No	Detection Limit (ppb_v)	**NYSDEC Permitted Effluent Limits (lbs/hr)**	8/15/02 Effluent Concentration (ppb_v)	Air Flow Rate (cfm)	VOC Emission Rate (lbs/hr)
Trichloroethene	79-01-6	0.68	0.006	ND	1326	---
Tetrachloroethene	127-18-4	0.68	0.007	ND	1326	---
c-1,2-Dichloroethene	156-59-2	0.68	0.003	52	1326	0.001056
1,1,1-Trichloroethane	71-55-6	0.68	0.001	ND	1326	---
m-Xylene	108-38-3	0.68	0.001	ND	1326	---
p-Xylene	106-42-3	0.68	0.001	ND	1326	---
o-Xylene	95-47-6	0.68	0.001	ND	1326	---
Vinyl Chloride	75-01-4	0.68	0.014	6	1326	0.000079
1,1-Dichloroethene	75-35-4	0.68	NL	ND	1326	---
1,1-Dichloroethane	75-34-3	0.68	NL	1.2	1326	0.000025
Acetone	67-64-1	2.7	NL	ND	1326	---
2-Butanone	78-93-3	2.7	NL	ND	1326	---
Freon 12	NA	0.68	NL	ND	1326	---
Ethanol	NA	2.7	NL	ND	1326	---
Methylene Chloride	75-09-2	0.68	NL	1.5	1326	0.000027
Chloromethane	NA	0.68	NL	ND	1326	---
Total			0.034	60.700		0.001187

ND	Compound not detected.
ppb_v	Parts per billion by volume.
VOCs	Volatile organic compounds.
NL	No limit specified in permit application.
NA	Not available.

Appendix A

Laboratory Analytical Results of
Process Vapor Samples
Active Industrial Uniform Site
67 West Montauk Highway
Lindenhurst, New York, NYSDEC
Contract No. D004134

MICROSEEPS

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway

Farmington, NY 11735

Order #: P0208302
Report Date: 08/28/02
Client Proj Name: Active
Client Proj #: 02370-01830

Sample Identification

Lab Sample #	Client Sample ID
P0208302-01	INFLUENT
P0208302-02	MIDFLUENT

Approved By: Debbie Hallo

Order #: P0208302
Report Date: 08/28/02
Client Proj Name: Active
Client Proj #: 02370-01830

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway
Farmington, NY 11735

Lab Sample #: P0208302-01

Sample Description	Matrix	Sampled Date/Time	Received
INFLUENT	Vapor	15 Aug. 02 10:00	21 Aug. 02

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	0.014	0.005	PPMV	AM4.02	rw	8/28/02
1,1,2,2-Tetrachloroethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
1,1,2-Trichloroethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
1,1-Dichloroethane	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,1-Dichloroethene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,2-Dichlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
1,2-Dichloroethane	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,2-Dichloropropane	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,3-Dichlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
1,4-Dichlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
Benzene	< 0.10	0.10	PPMV	AM4.02	rw	8/28/02
Bromodichloromethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Bromoform	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Bromomethane and Chloroethane	< 1.0	1.0	PPMV	AM4.02	rw	8/28/02
Carbon Tetrachloride	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Chlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
Chlorodibromomethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Chloroform	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Chloromethane	< 1.0	1.0	PPMV	AM4.02	rw	8/28/02
cis-1,2-Dichloroethene	0.68	0.010	PPMV	AM4.02	rw	8/28/02
cis-1,3-Dichloropropene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
Ethylbenzene	< 0.10	0.10	PPMV	AM4.02	rw	8/28/02
Methylene Chloride	< 2.0	2.0	PPMV	AM4.02	rw	8/28/02
Tetrachloroethene	0.32	0.005	PPMV	AM4.02	rw	8/28/02
Toluene	< 0.10	0.10	PPMV	AM4.02	rw	8/28/02
trans-1,2-Dichloroethene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
trans-1,3-Dichloropropene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
Trichloroethene	0.17	0.005	PPMV	AM4.02	rw	8/28/02
Trichlorofluoromethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Vinyl Chloride	< 3.0	3.0	PPMV	AM4.02	rw	8/28/02

Order #: P0208302
Report Date: 08/28/02
Client Proj Name: Active
Client Proj #: 02370-01830

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway
Farmington, NY 11735

Lab Sample #: P0208302-02

Sample Description	Matrix	Sampled Date/Time	Received
MIDFLUENT	Vapor	15 Aug. 02 10:00	21 Aug. 02

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
1,1,2,2-Tetrachloroethane	**< 0.005**	**0.005**	**PPMV**	AM4.02	rw	8/28/02
1,1,2-Trichloroethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
1,1-Dichloroethane	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,1-Dichloroethene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,2-Dichlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
1,2-Dichloroethane	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,2-Dichloropropane	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
1,3-Dichlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
1,4-Dichlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
Benzene	< 0.10	0.10	PPMV	AM4.02	rw	8/28/02
Bromodichloromethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Bromoform	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Bromomethane and Chloroethane	< 1.0	1.0	PPMV	AM4.02	rw	8/28/02
Carbon Tetrachloride	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Chlorobenzene	< 0.070	0.070	PPMV	AM4.02	rw	8/28/02
Chlorodibromomethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Chloroform	**< 0.005**	**0.005**	**PPMV**	**AM4.02**	**rw**	**8/28/02**
Chloromethane	< 1.0	1.0	PPMV	AM4.02	rw	8/28/02
cis-1,2-Dichloroethene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
cis-1,3-Dichloropropene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
Ethylbenzene	< 0.10	0.10	PPMV	AM4.02	rw	8/28/02
Methylene Chloride	**< 2.0**	**2.0**	**PPMV**	**AM4.02**	**rw**	**8/28/02**
Tetrachloroethene	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Toluene	**< 0.10**	**0.10**	**PPMV**	**AM4.02**	**rw**	**8/28/02**
trans-1,2-Dichloroethene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
trans-1,3-Dichloropropene	< 0.010	0.010	PPMV	AM4.02	rw	8/28/02
Trichloroethene	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Trichlorofluoromethane	< 0.005	0.005	PPMV	AM4.02	rw	8/28/02
Vinyl Chloride	< 3.0	3.0	PPMV	AM4.02	rw	8/28/02

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : BLUE WATER ENVIRONMENTAL, INC.
Co. Address : 160 NEW HIGHWAY, FARMINGDALE, NY 11735
Proj. Manager: MAN SOLIMAN
Proj. Location: ACTIVE, 67 W. MONTAUK HWY., LINDENHURST, NY
Proj. Number: 02370-01830
Phone # : 249-1872 XT 266 Fax # : 631-752-3008

Sampler's signature : C. Ferrito

Parameters Requested: EPA 601/602 VOLS

Results to : M. SOLIMAN

Invoice to : M. SOLIMAN

Cooler ID	Cooler Temp.

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.		Remarks
INFLUENT	AIR	8/15/02	1047		X	2	X	STANDARD
MIDFLUENT	AIR	8/15/02	1045		X	2	X	TURNAROUND

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
M. P. Soliman	BLUE	8/16/02	12PM	[illegible]	MICROSEEPS	8/16/02	[illegible]
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0207297

Work Order Summary

CLIENT:	Ms. Karen Albacker Law Engineering and Environmental Services, Inc. 1 Summit Square, Suite # 402 Route 413 and Doublewoods Rd. Langhorne, PA 19047	**BILL TO:**	Mr. Mark Soliman **Bluewater Environmental** 1610 New Highway Farmingdale, NY 11735
PHONE:	215-860-1963	**P.O. #**	02370-01830
FAX:	215-860-5360	**PROJECT #**	02370-01830 ACTIVE EFFLUENT
DATE RECEIVED:	7/15/2002	**CONTACT:**	Betty Chu
DATE COMPLETED:	7/24/2002		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	EFFLUENT	Modified TO-14	0.5 "Hg
02A	Lab Blank	Modified TO-14	NA
03A	LCS	Modified TO-14	NA

CERTIFIED BY: Linda D. Frumarx DATE: 07/24/02

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, NY NELAP - 11291, UT NELAP - 9166389892, LA NELAP/LELAP- AI 30763
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/02, Expiration date: 06/30/03

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified Method TO-14
Bluewater Environmental
Workorder# 0207297

One 6 Liter Summa Canister sample was received on July 15, 2002. The laboratory performed analysis via modified EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	*TO-14*	*ATL Modifications*
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: EFFLUENT

ID#: 0207297-01A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t071818		Date of Collection: 7/8/02
Dil. Factor:	1.36		Date of Analysis: 7/18/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.68	3.4	0.84	4.2
Freon 114	0.68	4.8	Not Detected	Not Detected
Chloromethane	0.68	1.4	1.2	2.6
Vinyl Chloride	0.68	1.8	9.4	24
Bromomethane	0.68	2.7	Not Detected	Not Detected
Chloroethane	0.68	1.8	Not Detected	Not Detected
Freon 11	0.68	3.9	Not Detected	Not Detected
1,1-Dichloroethene	0.68	2.7	1.2	4.8
Freon 113	0.68	5.3	Not Detected	Not Detected
Methylene Chloride	0.68	2.4	0.91	3.2
1,1-Dichloroethane	0.68	2.8	1.1	4.7
cis-1,2-Dichloroethene	0.68	2.7	42	170
Chloroform	0.68	3.4	Not Detected	Not Detected
1,1,1-Trichloroethane	0.68	3.8	Not Detected	Not Detected
Carbon Tetrachloride	0.68	4.3	Not Detected	Not Detected
Benzene	0.68	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.68	2.8	Not Detected	Not Detected
Trichloroethene	0.68	3.7	Not Detected	Not Detected
1,2-Dichloropropane	0.68	3.2	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.68	3.1	Not Detected	Not Detected
Toluene	0.68	2.6	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.68	3.1	Not Detected	Not Detected
1,1,2-Trichloroethane	0.68	3.8	Not Detected	Not Detected
Tetrachloroethene	0.68	4.7	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.68	5.3	Not Detected	Not Detected
Chlorobenzene	0.68	3.2	Not Detected	Not Detected
Ethyl Benzene	0.68	3.0	Not Detected	Not Detected
m,p-Xylene	0.68	3.0	Not Detected	Not Detected
o-Xylene	0.68	3.0	Not Detected	Not Detected
Styrene	0.68	2.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.68	4.7	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.68	3.4	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.68	3.4	Not Detected	Not Detected
1,3-Dichlorobenzene	0.68	4.2	Not Detected	Not Detected
1,4-Dichlorobenzene	0.68	4.2	Not Detected	Not Detected
alpha-Chlorotoluene	0.68	3.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.68	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.7	20	Not Detected	Not Detected
Hexachlorobutadiene	2.7	29	Not Detected	Not Detected
Propylene	2.7	4.8	Not Detected	Not Detected
1,3-Butadiene	2.7	6.1	Not Detected	Not Detected
Acetone	2.7	6.6	3.2	7.8

AIR TOXICS LTD.

SAMPLE NAME: EFFLUENT

ID#: 0207297-01A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t071818	**Date of Collection:**	7/8/02
Dil. Factor:	1.36	**Date of Analysis:**	7/18/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.7	8.6	Not Detected	Not Detected
2-Propanol	2.7	6.8	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.7	11	Not Detected	Not Detected
Vinyl Acetate	2.7	9.7	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	8.2	Not Detected	Not Detected
Hexane	2.7	9.7	Not Detected	Not Detected
Tetrahydrofuran	2.7	8.2	Not Detected	Not Detected
Cyclohexane	2.7	9.5	Not Detected	Not Detected
1,4-Dioxane	2.7	10	Not Detected	Not Detected
Bromodichloromethane	2.7	18	Not Detected	Not Detected
4-Methyl-2-pentanone	2.7	11	Not Detected	Not Detected
2-Hexanone	2.7	11	Not Detected	Not Detected
Dibromochloromethane	2.7	24	Not Detected	Not Detected
Bromoform	2.7	28	Not Detected	Not Detected
4-Ethyltoluene	2.7	14	Not Detected	Not Detected
Ethanol	2.7	5.2	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.7	10	Not Detected	Not Detected
Heptane	2.7	11	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0207297-02A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t071807	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	7/18/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0207297-02A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t071807	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	7/18/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0207297-03A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t071803	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 7/18/02	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	102
Freon 114	0.50	3.6	98
Chloromethane	0.50	1.0	91
Vinyl Chloride	0.50	1.3	96
Bromomethane	0.50	2.0	89
Chloroethane	0.50	1.3	100
Freon 11	0.50	2.8	89
1,1-Dichloroethene	0.50	2.0	92
Freon 113	0.50	3.9	102
Methylene Chloride	0.50	1.8	80
1,1-Dichloroethane	0.50	2.0	82
cis-1,2-Dichloroethene	0.50	2.0	89
Chloroform	0.50	2.5	84
1,1,1-Trichloroethane	0.50	2.8	104
Carbon Tetrachloride	0.50	3.2	117
Benzene	0.50	1.6	105
1,2-Dichloroethane	0.50	2.0	92
Trichloroethene	0.50	2.7	107
1,2-Dichloropropane	0.50	2.3	100
cis-1,3-Dichloropropene	0.50	2.3	99
Toluene	0.50	1.9	103
trans-1,3-Dichloropropene	0.50	2.3	96
1,1,2-Trichloroethane	0.50	2.8	103
Tetrachloroethene	0.50	3.4	92
1,2-Dibromoethane (EDB)	0.50	3.9	95
Chlorobenzene	0.50	2.3	91
Ethyl Benzene	0.50	2.2	112
m,p-Xylene	0.50	2.2	123
o-Xylene	0.50	2.2	121
Styrene	0.50	2.2	117
1,1,2,2-Tetrachloroethane	0.50	3.5	92
1,3,5-Trimethylbenzene	0.50	2.5	94
1,2,4-Trimethylbenzene	0.50	2.5	85
1,3-Dichlorobenzene	0.50	3.0	101
1,4-Dichlorobenzene	0.50	3.0	98
alpha-Chlorotoluene	0.50	2.6	98
1,2-Dichlorobenzene	0.50	3.0	102
1,2,4-Trichlorobenzene	2.0	15	74
Hexachlorobutadiene	2.0	22	74
Propylene	2.0	3.5	83
1,3-Butadiene	2.0	4.5	93
Acetone	2.0	4.8	84

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0207297-03A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t071803	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 7/18/02	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	100
2-Propanol	2.0	5.0	99
trans-1,2-Dichloroethene	2.0	8.0	94
Vinyl Acetate	2.0	7.2	159 Q
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	92
Hexane	2.0	7.2	126
Tetrahydrofuran	2.0	6.0	82
Cyclohexane	2.0	7.0	123
1,4-Dioxane	2.0	7.3	98
Bromodichloromethane	2.0	14	122
4-Methyl-2-pentanone	2.0	8.3	98
2-Hexanone	2.0	8.3	103
Dibromochloromethane	2.0	17	103
Bromoform	2.0	21	101
4-Ethyltoluene	2.0	10	101
Ethanol	2.0	3.8	96
Methyl tert-Butyl Ether	2.0	7.3	115
Heptane	2.0	8.3	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	113	70-130

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page of

Contact Person: Mark P. Soliman
Company: Blue Water Environmental
Address: 1610 New Highway City: Farmingdale State: NY Zip: 11735
Phone: 631-249-1872 x 266 FAX: 631-752-3008
Collected By: Signature: C. Ferrito

Project info.
P.O. #: 02370-01832
Project #: 02370-01832
Project Name: ACTIVE EFFLUENT AIR SAMPLE

Turn Around Time:
[X] Normal
[ ] Rush: ________ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum: Initial	Final	Receipt
01A	EFFLUENT	7-8-02 @ 12pm	TO-14	NOT RECORDED		0.5"Hg

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Mark P. Soliman 7-11-02	
	Kelley Brothers AT 7/15/02 0930

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	790481157045	KCB	—	good	Yes No (None)	0207297

Appendix B

Laboratory Analytical Results of
Process Water Samples
Active Industrial Uniform Site
67 West Montauk Highway
Lindenhurst, New York, NYSDEC
Contract No. D004134

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

08/28/2002

Custody Document: N6752

Received: 08/15/2002 11:50
Sampled by: Charlie Ferrito

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Blue Water

NY
Area: Active

Manager: M. Soliman

Respectfully submitted,

Laboratory Manager

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

08/28/2002

Volatiles - EPA 8260B

Sample: N6752-1

Client Sample ID: Influent — Collected: 08/15/2002 22:00

Matrix: Liquid — Type: Grab

Remarks: See Case Narrative

Analyzed Date: 08/17/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C 648 -3513	0.38	0.38	ppb	U
75-45-6	Chlorodifluoromethane	C 648 -3513	0.25	0.25	ppb	U
74-87-3	Chloromethane	C 648 -3513	0.32	0.32	ppb	U
75-01-4	Vinyl Chloride	C 648 -3513	0.23	0.23	ppb	U
74-83-9	Bromomethane	C 648 -3513	0.32	0.32	ppb	U
75-00-3	Chloroethane	C 648 -3513	0.24	0.24	ppb	U
75-69-4	Trichlorofluoromethane	C 648 -3513	0.27	0.27	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	C 648 -3513	0.36	0.36	ppb	U
75-35-4	1,1-Dichloroethene	C 648 -3513	0.27	0.27	ppb	U
67-64-1	Acetone	C 648 -3513	1.13	1.13	ppb	U
75-15-0	Carbon disulfide	C 648 -3513	0.19	0.19	ppb	U
75-09-2	Methylene Chloride	C 648 -3513	0.21	0.21	ppb	U
156-60-5	t-1,2-Dichloroethene	C 648 -3513	0.31	**1.40**	ppb	
1634-04-4	Methyl t-butyl ether	C 648 -3513	0.18	**3.60**	ppb	
75-34-3	1,1-Dichloroethane	C 648 -3513	0.30	**1.80**	ppb	
590-20-7	2,2-Dichloropropane	C 648 -3513	0.27	0.27	ppb	U
156-59-2	c-1,2-Dichloroethene	C 653 -3637	2.40	**202**	ppb	
78-93-3	2-Butanone	C 648 -3513	3.80	3.80	ppb	U
74-97-5	Bromochloromethane	C 648 -3513	0.25	0.25	ppb	U
67-66-3	Chloroform	C 648 -3513	0.26	0.26	ppb	U
71-55-6	1,1,1-Trichloroethane	C 648 -3513	0.26	**5.70**	ppb	
56-23-5	Carbon Tetrachloride	C 648 -3513	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	C 648 -3513	0.39	0.39	ppb	U
71-43-2	Benzene	C 648 -3513	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	C 648 -3513	0.23	0.23	ppb	U
79-01-6	Trichloroethene	C 648 -3513	0.36	**86.3**	ppb	
78-87-5	1,2-Dichloropropane	C 648 -3513	0.31	0.31	ppb	U
74-95-3	Dibromomethane	C 648 -3513	0.24	0.24	ppb	U
75-27-4	Bromodichloromethane	C 648 -3513	0.20	0.20	ppb	U
110-75-8	2-Chloroethylvinylether	C 648 -3513	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	C 648 -3513	0.16	0.16	ppb	U
108-10-1	4-Methyl-2-pentanone	C 648 -3513	0.63	0.63	ppb	U
108-88-3	Toluene	C 648 -3513	0.20	0.20	ppb	U
10061-02-6	t-1,3-Dichloropropene	C 648 -3513	0.16	0.16	ppb	U
79-00-5	1,1,2-Trichloroethane	C 648 -3513	0.16	0.16	ppb	U
127-18-4	Tetrachloroethene	C 653 -3637	1.10	**195**	ppb	

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08/28/2002

Volatiles - EPA 8260B

Sample: N6752-1...continue
Client Sample ID: Influent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 08/17/2002

Collected: 08/15/2002 22:00
Type: Grab

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
142-28-9	1,3-Dichloropropane	C 648 -3513	0.21	0.21	ppb	U
591-78-6	2-Hexanone	C 648 -3513	0.94	0.94	ppb	U
124-48-1	Dibromochloromethane	C 648 -3513	0.13	0.13	ppb	U
106-93-4	1,2-Dibromoethane	C 648 -3513	0.17	0.17	ppb	U
108-90-7	Chlorobenzene	C 648 -3513	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	C 648 -3513	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	C 648 -3513	0.22	0.22	ppb	U
108-38-3	m,p-xylene	C 648 -3513	0.34	**1.20**	ppb	
95-47-6	o-xylene	C 648 -3513	0.25	0.25	ppb	U
100-42-5	Styrene	C 648 -3513	0.20	0.20	ppb	U
75-25-2	Bromoform	C 648 -3513	0.21	0.21	ppb	U
98-82-8	Isopropylbenzene	C 648 -3513	0.15	0.15	ppb	U
108-86-1	Bromobenzene	C 648 -3513	0.20	0.20	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	C 648 -3513	0.23	0.23	ppb	U
103-65-1	n-Propylbenzene	C 648 -3513	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	C 648 -3513	0.35	0.35	ppb	U
622-96-8	p-Ethyltoluene	C 648 -3513	0.16	0.16	ppb	U
108-67-8	1,3,5-Trimethylbenzene	C 648 -3513	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	C 648 -3513	0.25	0.25	ppb	U
106-43-4	4-Chlorotoluene	C 648 -3513	0.22	0.22	ppb	U
98-06-6	tert-Butylbenzene	C 648 -3513	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	C 648 -3513	0.17	**0.94**	ppb	
135-98-8	sec-Butylbenzene	C 648 -3513	0.22	0.22	ppb	U
99-87-6	4-Isopropyltoluene	C 648 -3513	0.17	0.17	ppb	U
541-73-1	1,3-Dichlorobenzene	C 648 -3513	0.17	0.17	ppb	U
106-46-7	1,4-Dichlorobenzene	C 648 -3513	0.10	0.10	ppb	U
95-50-1	1,2-Dichlorobenzene	C 648 -3513	0.11	0.11	ppb	U
105-05-5	p-Diethylbenzene	C 648 -3513	0.22	0.22	ppb	U
104-51-8	n-Butylbenzene	C 648 -3513	0.17	0.17	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	C 648 -3513	0.50	0.50	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	C 648 -3513	0.42	0.42	ppb	U
120-82-1	1,2,4-Trichlorobenzene	C 648 -3513	0.13	0.13	ppb	U
87-68-3	Hexachlorobutadiene	C 648 -3513	0.45	0.45	ppb	U
91-20-3	Naphthalene	C 648 -3513	0.29	**1.10**	ppb	
87-61-6	1,2,3-Trichlorobenzene	C 648 -3513	0.19	0.19	ppb	U

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08/28/2002

Volatiles - EPA 8260B

Sample: N6752-1...continue

Client Sample ID: Influent

Collected: 08/15/2002 22:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 08/17/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C648-3513	95.1 %	(76- 118)	
4774-33-8	DIBROMOFLUOROMETHANE	C648-3513	102.0 %	(83- 113)	
2037-26-5	TOLUENE-D8	C648-3513	106.0 %	(90- 111)	
460-00-4	4-BROMOFLUOROBENZENE	C653-3637	95.5 %	(76- 118)	
4774-33-8	DIBROMOFLUOROMETHANE	C653-3637	100.0 %	(83- 113)	
2037-26-5	TOLUENE-D8	C653-3637	107.0 %	(90- 111)	

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08/28/2002

Volatiles - EPA 8260B

Sample: N6752-2
Client Sample ID: Effluent
Matrix: Liquid
Type: Grab
Collected: 08/15/2002 22:00
Remarks: See Case Narrative
Analyzed Date: 08/17/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C 648 -3514	0.38	0.38	ppb	U
75-45-6	Chlorodifluoromethane	C 648 -3514	0.25	0.25	ppb	U
74-87-3	Chloromethane	C 648 -3514	0.32	0.32	ppb	U
75-01-4	Vinyl Chloride	C 648 -3514	0.23	0.23	ppb	U
74-83-9	Bromomethane	C 648 -3514	0.32	0.32	ppb	U
75-00-3	Chloroethane	C 648 -3514	0.24	0.24	ppb	U
75-69-4	Trichlorofluoromethane	C 648 -3514	0.27	0.27	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	C 648 -3514	0.36	0.36	ppb	U
75-35-4	1,1-Dichloroethene	C 648 -3514	0.27	0.27	ppb	U
67-64-1	Acetone	C 648 -3514	1.13	1.13	ppb	U
75-15-0	Carbon disulfide	C 648 -3514	0.19	0.19	ppb	U
75-09-2	Methylene Chloride	C 648 -3514	0.21	0.21	ppb	U
156-60-5	t-1,2-Dichloroethene	C 648 -3514	0.31	0.31	ppb	U
1634-04-4	Methyl t-butyl ether	C 648 -3514	0.18	**1.30**	ppb	
75-34-3	1,1-Dichloroethane	C 648 -3514	0.30	0.30	ppb	U
590-20-7	2,2-Dichloropropane	C 648 -3514	0.27	0.27	ppb	U
156-59-2	c-1,2-Dichloroethene	C 648 -3514	0.24	**1.20**	ppb	
78-93-3	2-Butanone	C 648 -3514	3.80	3.80	ppb	U
74-97-5	Bromochloromethane	C 648 -3514	0.25	0.25	ppb	U
67-66-3	Chloroform	C 648 -3514	0.26	0.26	ppb	U
71-55-6	1,1,1-Trichloroethane	C 648 -3514	0.26	0.26	ppb	U
56-23-5	Carbon Tetrachloride	C 648 -3514	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	C 648 -3514	0.39	0.39	ppb	U
71-43-2	Benzene	C 648 -3514	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	C 648 -3514	0.23	0.23	ppb	U
79-01-6	Trichloroethene	C 648 -3514	0.36	0.36	ppb	U
78-87-5	1,2-Dichloropropane	C 648 -3514	0.31	0.31	ppb	U
74-95-3	Dibromomethane	C 648 -3514	0.24	0.24	ppb	U
75-27-4	Bromodichloromethane	C 648 -3514	0.20	0.20	ppb	U
110-75-8	2-Chloroethylvinylether	C 648 -3514	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	C 648 -3514	0.16	0.16	ppb	U
108-10-1	4-Methyl-2-pentanone	C 648 -3514	0.63	0.63	ppb	U
108-88-3	Toluene	C 648 -3514	0.20	0.20	ppb	U
10061-02-6	t-1,3-Dichloropropene	C 648 -3514	0.16	0.16	ppb	U
79-00-5	1,1,2-Trichloroethane	C 648 -3514	0.16	0.16	ppb	U
127-18-4	Tetrachloroethene	C 648 -3514	0.11	0.11	ppb	U

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08/28/2002

Volatiles - EPA 8260B

Sample: N6752-2...continue

Client Sample ID: Effluent
Collected: 08/15/2002 22:00
Matrix: Liquid
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 08/17/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
142-28-9	1,3-Dichloropropane	C 648 -3514	0.21	0.21	ppb	U
591-78-6	2-Hexanone	C 648 -3514	0.94	0.94	ppb	U
124-48-1	Dibromochloromethane	C 648 -3514	0.13	0.13	ppb	U
106-93-4	1,2-Dibromoethane	C 648 -3514	0.17	0.17	ppb	U
108-90-7	Chlorobenzene	C 648 -3514	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	C 648 -3514	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	C 648 -3514	0.22	0.22	ppb	U
108-38-3	m,p-xylene	C 648 -3514	0.34	0.34	ppb	U
95-47-6	o-xylene	C 648 -3514	0.25	0.25	ppb	U
100-42-5	Styrene	C 648 -3514	0.20	0.20	ppb	U
75-25-2	Bromoform	C 648 -3514	0.21	0.21	ppb	U
98-82-8	Isopropylbenzene	C 648 -3514	0.15	0.15	ppb	U
108-86-1	Bromobenzene	C 648 -3514	0.20	0.20	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	C 648 -3514	0.23	0.23	ppb	U
103-65-1	n-Propylbenzene	C 648 -3514	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	C 648 -3514	0.35	0.35	ppb	U
622-96-8	p-Ethyltoluene	C 648 -3514	0.16	0.16	ppb	U
108-67-8	1,3,5-Trimethylbenzene	C 648 -3514	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	C 648 -3514	0.25	0.25	ppb	U
106-43-4	4-Chlorotoluene	C 648 -3514	0.22	0.22	ppb	U
98-06-6	tert-Butylbenzene	C 648 -3514	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	C 648 -3514	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	C 648 -3514	0.22	0.22	ppb	U
99-87-6	4-Isopropyltoluene	C 648 -3514	0.17	0.17	ppb	U
541-73-1	1,3-Dichlorobenzene	C 648 -3514	0.17	0.17	ppb	U
106-46-7	1,4-Dichlorobenzene	C 648 -3514	0.10	0.10	ppb	U
95-50-1	1,2-Dichlorobenzene	C 648 -3514	0.11	0.11	ppb	U
105-05-5	p-Diethylbenzene	C 648 -3514	0.22	0.22	ppb	U
104-51-8	n-Butylbenzene	C 648 -3514	0.17	0.17	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	C 648 -3514	0.50	0.50	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	C 648 -3514	0.42	0.42	ppb	U
120-82-1	1,2,4-Trichlorobenzene	C 648 -3514	0.13	0.13	ppb	U
87-68-3	Hexachlorobutadiene	C 648 -3514	0.45	0.45	ppb	U
91-20-3	Naphthalene	C 648 -3514	0.29	0.29	ppb	U
87-61-6	1,2,3-Trichlorobenzene	C 648 -3514	0.19	0.19	ppb	U

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08/28/2002

Volatiles - EPA 8260B

Sample: N6752-2...continue

Client Sample ID: Effluent
Collected: 08/15/2002 22:00
Matrix: Liquid
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 08/17/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C648-3514	96.3 %	(76- 118)	
4774-33-8	DIBROMOFLUOROMETHANE	C648-3514	101.0 %	(83- 113)	
2037-26-5	TOLUENE-D8	C648-3514	107.0 %	(90- 111)	

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08/28/2002

Mercury, Total

Sample: N6752-2

Client Sample ID: Effluent
Matrix: Liquid
Remarks:
Analyzed Date: 08/21/2002

Collected: 08/15/2002 22:00
Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000020	0.000020	ppm	U

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08/28/2002

TAL Metals by EPA7000 Series

Sample: N6752-2

Client Sample ID: Effluent
Collected: 08/15/2002 22:00

Matrix: Liquid
Type: Grab

Remarks:

Analyzed Date: 08/23/2002

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.010	**0.023**	ppm	
7440-36-0	Antimony	0.0016	**0.029**	ppm	
7440-38-2	Arsenic	0.0036	0.0036	ppm	U
7440-39-3	Barium	0.00070	**0.035**	ppm	
7440-41-7	Beryllium	0.0016	0.0016	ppm	U
7440-43-9	Cadmium	0.00024	**0.00050**	ppm	
7440-70-2	Calcium	0.038	**97.8**	ppm	
7440-47-3	Chromium	0.0032	0.0032	ppm	U
7440-48-4	Cobalt	0.00024	**0.00060**	ppm	
7440-50-8	Copper	0.0028	**0.0048**	ppm	
7439-89-6	Iron	0.0098	**0.13**	ppm	
7439-92-1	Lead	0.0020	0.0020	ppm	U
7439-95-4	Magnesium	0.050	**138**	ppm	
7439-96-5	Manganese	0.0020	**2.55**	ppm	
7440-02-0	Nickel	0.0010	**0.0016**	ppm	
7440-09-7	Potassium	0.046	**44.5**	ppm	
7782-49-2	Selenium	0.0030	0.0030	ppm	U
7440-22-4	Silver	0.0043	0.0043	ppm	U
7440-23-5	Sodium	0.71	**1080**	ppm	
7440-28-0	Thallium	0.0024	**0.016**	ppm	
7440-62-2	Vanadium	0.00070	0.00070	ppm	U
7440-66-6	Zinc	0.0057	**0.019**	ppm	

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08/28/2002

Alkalinity - EPA 310.1

Sample: N6752-2

Client Sample ID: Effluent

Collected: 08/15/2002 22:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/18/2002

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	**58.0**	ppm	

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08/28/2002

Chemical Oxygen Demand (COD) - EPA 410.4

Sample: N6752-2

Client Sample ID: Effluent
Collected: 08/15/2002 22:00
Matrix: Liquid
Type: Grab
Remarks:
Analyzed Date: 08/19/2002

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	**61.4**	ppm	

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08/28/2002

Residual Chlorine - EPA 330.3/330.3M

Sample: N6752-2

Client Sample ID: Effluent

Collected: 08/15/2002 22:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/17/2002

Cas No	Analyte	MDL	Result	Units	Q
	Residual Chlorine	NA	ND	ppm	

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08/28/2002

Total Dissolved Solids - 2540C

Sample: N6752-2

Client Sample ID: Effluent
Matrix: Liquid
Remarks:
Analyzed Date: 08/16/2002

Type: Grab

Collected: 08/15/2002 22:00

Cas No	Analyte	MDL	Result	Units	Q
	Total Dissolved Solids	9.92	**4040**	mg/l	

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08/28/2002

Total Suspended Solids - 2540D

Sample: N6752-2

Client Sample ID: Effluent

Collected: 08/15/2002 22:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/16/2002

Cas No	Analyte	MDL	Result	Units	Q
	Total Suspended Solids	4.58	**74.0**	mg/L	

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08/28/2002

Case Narrative

VOLATILES:

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl,2-pentanone
2-Hexanone

M&P-Xylenes and 2-Chloro ethyl vinyl ether were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Reviewed by: _____

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08/28/2002

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution. In the case of a surrogate this flag indicates a system mointoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

P - ICP

T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

NA - Not Applicable

NR - Not Required

* - Outside Expected Range (NYCDEP Table I/II or Surrogate Limits)

OTHER

- All soil and sediment samples are reported on a dry weight basis.

ETL
Environmental Testing Laboratories, Inc.
208 Route 109 • Farmingdale • New York 11735
631-249-1456 • Fax: 631-249-8344

CHAIN OF CUSTODY DOCUMENT

N 06752

Project Name: ACTIVE | Project Manager: M. SOLIMAN | Sampler (Signature): C-Ferrito | (Print): CHARLIE FERRITO

Project Address:

Client BW | J/N: | ☐ Rush by / /

SAMPLE INFO Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank; Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | *Air - Vol. (Liters) include: Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	Total. # Cont.	601/602	BTX/BTEX	MTBE	624/(8260)/8021	625/8270/BN	PCB/Pesticides	Pet.Prods./8100M	RCRA Metals (TAL)	pH/Flash/React	418.1 - TRPH	TDS - 160.2	TSS - 160.1	COD - 410.1-2	Res. Chlorine	Alkalinity				
1	8/15/02	10PM	G	L	INFLUENT	2				X															
2	8/15/02	10PM	G	L	EFFLUENT	6				X				X			X	X	X	X	X				
3																									
4																									
5																									
6																									
7																									
8																									
9					STANDARD TURNAROUND																				
10																									
11																									
12																									
13																									
14																									
15																									

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
[signature]	Date 8/15/02 Time 12PM	BWE.		Date Time	
Relinquished by (Signature):	Date Time	Printed Name & Agent:	Received for Lab by (Signature): [signature]	Date 8-15-02 Time 11:50	Printed Name [signature]

Comments & Special Instructions	QA/QC Type:	Number & Type of Containers:	Preservatives:	Temp:
		4-VOAS, 1-VOA HNO3, [illegible]	H_2SO_4 (1-L) [illegible]	4°C PP 8/16

ODR [illegible]