Blue Water Environmental, Inc.
1610 NEW HIGHWAY
FARMINGDALE, NEW YORK 11735
Phone: (631) 752-2145
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LETTER OF TRANSMITTAL

To: NYSDEC	Date: Wednesday, March 03, 2004
Bureau of Construction Services	Re: NYSDEC - D004134
625 Broadway, 12th Floor, Albany, NY 12233-7010	Active Industrial Uniform
Attention: GERARD BURKE	Lindenhurst, NY

Gentlemen: We are Sending You

VIA : Fed Ex 2-day BWE Job No. 02370-01830

☑ **Attached** ☐ **Catalog Cuts** ☐ **Certifications** ☐

☐ **Copy of letter** ☐ **Shop drawings** ☐ **Specifications** ☐

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Remarks : If you have any questions or comments please do not hesitate to call me at 631-249-1872 ext. 266.

Copy To : File

Signed : Mark P. Soliman

Mark P. Soliman, Project Manager / Engineer

THIRD QUARTER 2003
OPERATION AND MAINTENANCE
QUARTERLY REPORT

JANUARY 20, 2004
ACTIVE INDUSTRIAL UNIFORM SITE
67 WEST MONTAUK HIGHWAY
VILLAGE OF LINDENHURST, NEW YORK

NYSDEC CONTRACT NO. D004134

THIRD QUARTER 2003
OPERATION AND MAINTENANCE
QUARTERLY REPORT

JANUARY 20, 2004

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 quarterly report representing the third quarter of system operation for the year 2003 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 January 15, 2003, the NYSDEC provided Blue Water Environmental, Inc. (Blue Water) approval to modify the reporting schedule from a monthly to a quarterly basis. Therefore, this quarterly report includes summaries of monitoring and sample collection activities performed for the periods of July, August, and September 2003.

On August 12, September 5, and October 3, 2003, Blue Water completed the monthly Operation and Maintenance (O&M) monitoring and sample collection activities for the months of July, August, and September, respectively, 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, August, and September 2003 operation periods.

2. OPERATIONAL DESCRIPTION

The groundwater treatment system was in operation for this reporting period (July 12, 2003 through October 3, 2003) as follows:

- **July 2003:** **32 days**
- **August 2003:** **24 days**
- **September 2003:** **28 days**

During this operation period, both air stripping towers (in-series), and Recovery Wells RW-1 and RW-2 were on-line.

The discharge flow meter recorded approximately 17,022,776 gallons of water treated by the system during the Third Quarter 2003 reporting period with a weighted average for system effluent flow of 160 gallons per minute (gpm). The RW-1 flow meter recorded average recovery flows as follows:

- **July 2003:** **82 gpm**
- **August 2003:** **86 gpm**
- **September 2003:** **84 gpm**

The RW-2 flow meter recorded average recovery flows as follows:

- **April 2003:** **77 gpm**
- **May 2003:** **77 gpm**
- **June 2003:** **76 gpm**

The following is a summary of system operation to date:

- **Total Water Treated to Date:** **127,412,272 gallons**
- **Total Mass of VOCs Recovered to date:** **528 pounds**
- **Mass of VOCs Removed in Reporting Period:** **80 pounds**

3. SUMMARY OF ON-SITE QUARTERLY ACTIVITIES

During the operating month of the third quarter 2003, the following tasks were performed:

- July 16, 2003 — Site visit conducted with the following actions completed: acid water handling, adjusted pH, and transferred water from tank to secondary containment.
- July 18, 2003 — Transferred water from secondary containment into system. Pumped iron into rolloff and water from tank into rolloff and adjusted pH then pumped water into system.
- July 28, 2003 — Transfer iron from secondary containment into rolloff. Conducted pressure test for well RW-2. Changed out cartridge filter.
- July 31, 2003 — Checked pH of water in rolloff tank and adjusted pH by adding acid.
- August 12, 2003: — Influent and Effluent water samples were collected and analyzed for volatile organic compounds (VOCs). Effluent water samples were 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 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-14A by Air Toxics Ltd.
- August 14, 2003 — Major regional power outage.

- August 18, 2003 — Re-started system upon dependable restoration of power.
- August 28, 2003 — Shut down RW-1 due to air discharge.
- September 3, 2003 — Changed out lag carbon unit but did not restart system. Noted small hole in VPGAC unit bottom tray.
- September 4, 2003 — Changed out lead carbon. Accepted delivery of acid (4 55 gallon drums of 20 baume HCl with foam inhibitor), and 13,000 pounds of VPGAC. Offloaded 15,000 pounds of spent VPGAC. Turned system on.
- September 5, 2003: — Influent and Effluent water samples were collected and analyzed for volatile organic compounds (VOCs). Effluent water samples were 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 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.
- September 17, 2003 — Checked and tightened guy wires for tower in preparation for major storm. Cleaned up site of loose debris.
- October 3, 2003 — Influent, Midfluent, and Effluent water samples were collected and analyzed for volatile organic compounds (VOCs), and RCRA Metals. Effluent water samples were collected and analyzed for 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 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.

4. SUMMARY OF FIELD DATA AND ANALYTICAL RESULTS

The July, August, and September ground-water influent analytical results indicate that the system is successfully recovering and treating approximately 0.042, 0.046, and 0.035 pounds per hour of volatile organic compounds (VOCs), respectively. The in-series tower air stripping system removed approximately 100% of the contaminant mass from the water into the vapor stream for July, August, and September. However, there was an exceedence for NYSDEC Effluent Limits for the quarterly period. Manganese was above the effluent limit of 2.0 mg/l on August 12, and October 3, 2003, copper was above the effluent limit of 0.038 mg/l on September 5, and October 3, 2003, and zinc was at the effluent limit of 0.37 mg/l on

September 5, 2003. In addition there was an effluent limit exceedence (0.003 lbs/hr) for vapor discharge of cis-1,2-dichloroethene of 0.006 lbs/hr on August 12, 2003. The system cumulative mass removal since startup is approximately 528 pounds of VOCs.

A carbon change out of the VPGAC lag and lead carbon unit was performed on September 3 and 4, 2003

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, August, and September 2003 O&M monitoring and sampling events, 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 through F.

Tables

Table 1. Summary of Process Water Analytical Data, July, August, and September 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Cas No.	Detection Limit	NYSDEC Effluent Limits	INFLUENT INF. HEADER 8/12/2003	INFLUENT INF. HEADER 9/5/2003	INFLUENT INF. HEADER 10/3/2003
Volatile Organic Compounds (ug/L)						
Trichloroethene	79-01-6	0.36	10	67	68.8	65.4
Tetrachloroethene	127-18-4	0.11	4	357	416	270
c-1,2-Dichloroethene	156-59-2	0.24	10	90.7	85.7	99.6
t-1,2-Dichloroethene		0.31	NL	<0.22	<0.22	1.03
1,1-Dichloroethene	75-35-4	0.27	NL	<0.23	<0.23	<0.16
1,1,1-Trichloroethane	71-55-6	0.26	5	1.88	1.57	2.1
Total Xylene	--	--	5	ND	ND	ND
Vinyl Chloride	75-01-4	0.23	10	<0.28	<0.28	<0.11
2-Butanone (Methyl Ethyl Ketone)		5	NL	<1.64	<1.64	<0.46
1,1-Dichloroethane	75-34-3	0.3	NL	<0.22	0.85	<0.88
1,2,4-Trimethylbenzene		0.17	NL	<0.15	<0.15	<0.11
Methyl t-butyl ether	75-34-3	0.18	NL	4.92	5.74	4.5
1,2,4,5-Tetramethylbenzene		1.8	NL	<0.23	<0.23	<0.12
Naphthalene		0.29	NL	<0.40	<0.40	<0.46
Sum of VOC Constituents				521.5	578.7	442.6
Inorganic Compounds mg/L						
Iron	7439-89-6	0.018	4	--	--	--
Manganese	7439-96-5	0.0008	2	--	--	--
TDS	--	9.92	Monitor	--	--	--
TSS	--	4.58	20	--	--	--
Aluminum	7429-90-5	0.031	4	--	--	--
Arsenic	7440-38-2	0.0034	0.14	--	--	--
Cadmium	7440-43-9	0.0003	0.03	--	--	--
Copper	7440-50-8	0.0029	0.038	--	--	--
Nickel	7440-02-0	0.0005	0.065	--	--	--
Silver	7440-22-4	0.001	0.009	--	--	--
Zinc	7440-66-6	0.0044	0.37	--	--	--
Antimony	7440-36-0	0.002	NL	--	--	--
Barium	7440-39-3	0.0004	NL	--	--	--
Calcium	7440-70-2	0.026	NL	--	--	--
Chromium	7440-47-3	0.0016	NL	--	--	--
Cobalt	7440-48-4	0.0004	NL	--	--	--
Lead	7439-92-1	0.0017	NL	--	--	--
Magnesium	7439-95-4	0.027	NL	--	--	--
Mercury	7439-97-6	0.00002	NL	--	--	--
Potassium	7440-09-7	0.052	NL	--	--	--
Residual Chlorine	--	NA	NL	--	--	--
Selenium	7782-49-2	0.0043	NL	--	--	--
Sodium	7440-23-5	0.22	NL	--	--	--
Thallium	7440-28-0	0.002	NL	--	--	--
Vanadium	7440-62-2	0.0005	NL	--	--	--

Table 1. Summary of Process Water Analytical Data, July, August, and September 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Cas No.	Detection Limit	NYSDEC Effluent Limits	INFLUENT INF. HEADER 8/12/2003	INFLUENT INF. HEADER 9/5/2003	INFLUENT INF. HEADER 10/3/2003
General Chemistry						
COD, dissolved (mg/L)		4.8	NL	--	--	--
Conductivity, dissolved at 25°C (ms/cm)		NA	NL	4.18	4.24	4.74
Turbidity (NTU)		NA	NL	6	1	8
pH (s.u.)		0.01	6 to 9	6.42	6.15	5.79
Alkalinity (mg/L)		0.28	NL	--	--	--
Dissolved Oxygen (mg/L)		NA	NL	1.65	2.33	3.65

Notes:

*	Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding the detection limits have be 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.
ms/cm	Millisiemens per centimeter.
s.u.	Standard pH units.
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
ND	Not detected above detection limits
--	Sample not analyzed for specific parameter
NA	Not available; data will be included in the 1st Quarter 2003 report.

Table 1. Summary of Process Water Analytical Data, July, August, and September 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: / Units as noted	Sample ID/Port: / Sample Location: / Date Collected:	MIDFLUENT HEADER 8/12/2003	MIDFLUENT HEADER 9/5/2003	MIDFLUENT HEADER 10/3/2003
Volatile Organic Compounds (ug/L)				
Trichloroethene		--	--	<0.21
Tetrachloroethene		--	--	2.81
c-1,2-Dichloroethene		--	--	4.27
t-1,2-Dichloroethene		--	--	<0.22
1,1-Dichloroethene		--	--	<0.23
1,1,1-Trichloroethane		--	--	<0.22
Total Xylene		--	--	ND
Vinyl Chloride		--	--	<0.28
2-Butanone (Methyl Ethyl Ketone)		--	--	<1.64
1,1-Dichloroethane		--	--	<0.22
1,2,4-Trimethylbenzene		--	--	<0.15
Methyl t-butyl ether		--	--	3.19
1,2,4,5-Tetramethylbenzene		--	--	<0.23
Naphthalene		--	--	<0.40
Sum of VOC Constituents		--	--	10.27
Inorganic Compounds mg/L				
Iron		--	--	--
Manganese		--	--	--
TDS		--	--	--
TSS		--	--	--
Aluminum		--	--	--
Arsenic		--	--	--
Cadmium		--	--	--
Copper		--	--	--
Nickel		--	--	--
Silver		--	--	--
Zinc		--	--	--
Antimony		--	--	--
Barium		--	--	--
Calcium		--	--	--
Chromium		--	--	--
Cobalt		--	--	--
Lead		--	--	--
Magnesium		--	--	--
Mercury		--	--	--
Potassium		--	--	--
Residual Chlorine		--	--	--
Selenium		--	--	--
Sodium		--	--	--
Thallium		--	--	--
Vanadium		--	--	--

Table 1. Summary of Process Water Analytical Data, July, August, and September 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: / Units as noted	Sample ID/Port: / Sample Location: / Date Collected:	MIDFLUENT HEADER 8/12/2003	MIDFLUENT HEADER 9/5/2003	MIDFLUENT HEADER 10/3/2003
General Chemistry				
COD, dissolved (mg/L)		--	--	--
Conductivity, dissolved at 25°C (ms/cm)		4.37	4.23	5.04
Turbidity (NTU)		3	1	4
pH (s.u.)		7.19	6.97	6.96
Alkalinity (mg/L)		--	--	--
Dissolved Oxygen (mg/L)		6.79	7.38	6.2

Notes:

*	Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding the de 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.
ms/cm	Millisiemens per centimeter.
s.u.	Standard pH units.
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
ND	Not detected above detection limits
--	Sample not analyzed for specific parameter
NA	Not available; data will be included in the 1st Quarter 2003 report.

Table 1. Summary of Process Water Analytical Data,July, August, and September 2003 Sampling Events, Active Indu
Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	NYSDEC Effluent Limits	EFFLUENT DISCHARGE 8/12/2003	EFFLUENT DISCHARGE 9/5/2003	EFFLUENT DISCHARGE 10/3/2003
Volatile Organic Compounds (ug/L)				
Trichloroethene	10	<0.21	<0.21	<0.21
Tetrachloroethene	4	<0.38	<0.38	<0.38
c-1,2-Dichloroethene	10	<0.16	<0.16	<0.16
t-1,2-Dichloroethene	NL	<0.22	<0.22	<0.22
1,1-Dichloroethene	NL	<0.23	<0.23	<0.23
1,1,1-Trichloroethane	5	<0.22	<0.22	<0.22
Total Xylene	5	ND	ND	ND
Vinyl Chloride	10	<0.28	<0.28	<0.28
2-Butanone (Methyl Ethyl Ketone)	NL	<1.64	<1.64	<1.64
1,1-Dichloroethane	NL	<0.22	<0.22	<0.22
1,2,4-Trimethylbenzene	NL	<0.15	<0.15	<0.15
Methyl t-butyl ether	NL	1.73	1.98	<0.074
1,2,4,5-Tetramethylbenzene	NL	<0.23	<0.23	<0.23
Naphthalene	NL	<0.40	<0.40	<0.40
Sum of VOC Constituents		1.7	2.0	0.0
Inorganic Compounds mg/L				
Iron	4	0.41	0.23	0.40
Manganese	2	**2.08**	1.92	**2.22**
TDS	Monitor	2450	2610	3110
TSS	20	<4.58	<4.58	<4.58
Aluminum	4	<0.013	0.019	0.065
Arsenic	0.14	0.04	0.017	0.017
Cadmium	0.03	0.0008	<0.00070	0.0008
Copper	0.038	0.0029	**0.069**	**0.042**
Nickel	0.065	0.0016	0.0068	0.0021
Silver	0.009	0.001	0.0076	0.092
Zinc	0.37	0.0087	**0.37**	0.18
Antimony	NL	0.0085	0.012	0.0078
Barium	NL	0.04	0.026	0.034
Calcium	NL	73.2	75.3	83.5
Chromium	NL	<0.0016	<0.0010	0.0037
Cobalt	NL	<0.00040	0.0025	0.0005
Lead	NL	0.005	<0.0024	0.023
Magnesium	NL	82.8	75.6	104
Mercury	NL	<0.000020	<0.000020	0.000047
Potassium	NL	39.8	33.7	43
Residual Chlorine	NL	ND	ND	ND
Selenium	NL	0.041	<0.0034	0.32
Sodium	NL	682	586	876
Thallium	NL	0.05	<0.0044	0.032
Vanadium	NL	<0.00050	0.0005	<0.00050

Table 1. Summary of Process Water Analytical Data,July, August, and September 2003 Sampling Events, Active Indu
Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	NYSDEC Effluent Limits	EFFLUENT DISCHARGE 8/12/2003	EFFLUENT DISCHARGE 9/5/2003	EFFLUENT DISCHARGE 10/3/2003
General Chemistry				
COD, dissolved (mg/L)	NL	123	89.1	459
Conductivity, dissolved at 25°C (ms/cm)	NL	4.33	4.2	4.97
Turbidity (NTU)	NL	2	2	3
pH (s.u.)	6 to 9	7.35	7.35	6.5
Alkalinity (mg/L)	NL	38	48	24
Dissolved Oxygen (mg/L)	NL	7.11	6.07	6.1

Notes:

*	Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding 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.
ms/cm	Millisiemens per centimeter.
s.u.	Standard pH units.
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
ND	Not detected above detection limits
--	Sample not analyzed for specific parameter
NA	Not available; data will be included in the 1st Quarter 2003 report.

Table 2. Summary of Process Vapor Analytical Data, July, August, and September 2003 Sampling Events, 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 8/12/2003	INFLUENT TO CARBON 9/5/2003	INFLUENT TO CARBON 10/3/2003
VOCs - 601/602 (ppm_v):					
cis-1,2-Dichloroethene	0.01		0.48	0.15	0.27
trans-1,2-Dichloroethene	0.01		<0.010	<0.010	<0.010
1,1-Dichloroethane	0.01		<0.010	<0.010	<0.010
1,1,1-Trichloroethane	0.005		0.006	<0.0050	<0.0050
Tetrachloroethene	0.005		0.58	0.29	0.42
Trichloroethene	0.005		0.18	0.074	0.1
Toluene	0.1		<0.10	<0.10	<0.10
Total			1.246	0.514	0.79

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

ppb_v Parts per million by volume

ND Not detected over method detection limits.

Table 2. Summary of Process Vapor Analytical Data, July, August, and September 2003 Sampling Events, Act 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:	MIDFLUENT TO CARBON 10/3/2003
VOCs - 601/602 (ppm_v):			
cis-1,2-Dichloroethene	0.01		<0.010
trans-1,2-Dichloroethene	0.01		<0.010
1,1-Dichloroethane	0.01		<0.010
1,1,1-Trichloroethane	0.005		<0.0050
Tetrachloroethene	0.005		<0.0050
Trichloroethene	0.005		<0.0050
Toluene	0.1		<0.10
Total			0

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

ppb_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
TECHNICIAN:	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
RW-1 Total (gallons)	36,300	3,972,000	7,739,697	10,843,349	15,129,285	17,333,260
RW-2 Flow (gpm)	115	100	102	100.7	100.18	100
RW-2 Total (gallons)	40,810	4,959,775	9,718,481	13,679,048	17,852,170	20,605,762
RW-1 Pressure (psi)	16.5	21	20	21	22	22
RW-2 Pressure (psi)	17	32	30	32	33	18
Combined Pressure (psi)	14	13.5	14	14	14	14
P-1 Pressure (psi)	14	14	14	14	13	13
P-2 Pressure (psi)	24	12	27	14	12	12
Filter in Pressure (psi)	---	---	28	28	27	28
Filter out Pressure (psi)	---	---	11	11	12	12
Effluent Flow (gpm)	197	182	184	192	180.4	177.1
Effluent Total (gallons)	---	8,980,610	17,577,514	24,708,172	33,158,338	38,099,669
AIR						
Air Flow (IWC)	---	---	---	---	---	---
Midfluent Vacuum (IWC)	5.5	0	0	0	0	0
Blower Influent Vacuum (IWC)	10.5	13	13	12	12	12
Blower Effluent Pressure (IWC)	---	5	5	3	8	8
Carbon 1 Pressure (IWC)	7	5	4	4	6	6
Carbon 1 Temperature (F)	65	70	60	64	79	79
Carbon 2 Pressure (IWC)	4	3	5	2	3	3
Carbon 2 Temperature (F)	65	65	60	58	79	79
NOTES						
Cartridge Filter Bypassed	N	Y	N	N	N	N
Lead Carbon Changeout	N	N	N	Y	N	N
Lag Carbon Changeout	N	N	N	N	N	N
Water in Sump	Y	Y	Y	N	N	N
Acid Wash Performed	N	N	N	N	N	N
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N

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

DATE:	7/9/2002	8/15/2002	9/12/2002	10/11/2002	11/7/2002	12/11/2002
TECHNICIAN:	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	C-FAWD
WATER						
RW-1 Flow (gpm)	80.02	77.8	82.6	84.2	83.3	84.5
RW-1 Total (gallons)	20,248,498	24,392,360	27,418,196	30,622,274	33,685,276	37,194,460
RW-2 Flow (gpm)	91.45	89.1	88.7	85.1	82	NG
RW-2 Total (gallons)	24,106,302	28,886,434	32,316,484	35,828,892	38,936,800	NG
RW-1 Pressure (psi)	22	22	20	19	20	18
RW-2 Pressure (psi)	23	22	22	21	21	NG
Combined Pressure (psi)	14	14	13	14	14	13
P-1 Pressure (psi)	13	13	13	14	13	12
P-2 Pressure (psi)	12	14	13	12	14	5
Filter in Pressure (psi)	0	16	15	14	16	0
Filter out Pressure (psi)	0	10	10	11	9	3
Effluent Flow (gpm)	171.58	168	167.7	166.67	160.8	59
Effluent Total (gallons)	44,445,564	53,294,889	59,681,940	66,331,600	72,407,999	78,222,360
AIR						
Air Flow (IWC)	0.9	0.9	0.9	0.9	0.9	0.9
Midfluent Vacuum (IWC)	0	0	0	0	0	0
Blower Influent Vacuum (IWC)	10	11	12	12	11	11
Blower Effluent Pressure (IWC)	5	5	3	4	4	5
Carbon 1 Pressure (IWC)	5	5	5	5	6	5
Carbon 1 Temperature (F)	84	83	77	70	67	60
Carbon 2 Pressure (IWC)	3	3	3	3	3	3
Carbon 2 Temperature (F)	82	81	77	70	62	55
NOTES						
Cartridge Filter Bypassed	N	N	N	N	N	N
Lead Carbon Changeout	Y	N	N	N	N	N
Lag Carbon Changeout	N	N	N	N	N	Y
Water in Sump	N	N	N	N	N	N
Acid Wash Performed	N	N	N	N	N	Y
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N

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

DATE:	1/10/2003	2/12/2003	3/13/2003	4/4/2003	5/6/2003	6/17/2003
TECHNICIAN:	C-FAWD	C-FAWD	M-SOLIMAN	C-FERRITO	WALASSON	M-SOLIMAN
WATER						
RW-1 Flow (gpm)	82.82	83.2	77.2	77.45	77.8	70.74
RW-1 Total (gallons)	40,393,160	44,178,624	47,493,112	49,886,480	53,345,440	57,731,644
RW-2 Flow (gpm)	NG	NG	NG	82.62	79.27	74.32
RW-2 Total (gallons)	NG	NG	NG	4,248,139	46,189,696	50,803,184
RW-1 Pressure (psi)	20	16	20	20	15	19
RW-2 Pressure (psi)	NG	NG	NG	20	20	15
Combined Pressure (psi)	13	13	13	13	13	13
P-1 Pressure (psi)	12	12	12	13	15	13
P-2 Pressure (psi)	12	2	4	13	18	15
Filter in Pressure (psi)	11	4	22	15	18	19
Filter out Pressure (psi)	22	2	13	10	10	9
Effluent Flow (gpm)	84.2	66.5	163.9	155.19	151.41	144.54
Effluent Total (gallons)	81,289,488	84,887,344	88,056,612	91,505,690	98,619,736	107,521,888
AIR						
Air Flow (IWC)	0.9	0.9	0.9	0.9		0.74
Midfluent Vacuum (IWC)	0	0	0	0		11.5
Blower Influent Vacuum (IWC)	9	6	12	12		11
Blower Effluent Pressure (IWC)	5	5	5	5		6
Carbon 1 Pressure (IWC)	5	6	5	6	3	5.5
Carbon 1 Temperature (F)	60	60	60	60	62	78
Carbon 2 Pressure (IWC)	3	3	5	3	5	3
Carbon 2 Temperature (F)	60	50	60	56	62	78
NOTES						
Cartridge Filter Bypassed	N	N	N	N		
Lead Carbon Changeout	N	N	N	Y	Y	N
Lag Carbon Changeout	N	N	N	N	Y	N
Water in Sump	Y	Y	N	N	N	
Acid Wash Performed	N	N	Y	N	Y	N
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N

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

DATE:	7/11/2003	8/12/2003	9/5/2003	10/3/2003		
TECHNICIAN:	WALASSON	CF & CB	CF	CF &KC		
WATER						
RW-1 Flow (gpm)	93.99	82.4	85.6	83.7		
RW-1 Total (gallons)	59,654,928	63,701,788	65,761,244	69,144,560		
RW-2 Flow (gpm)	Off	77.3	77	76.3		
RW-2 Total (gallons)	Off	53,981,556	56,215,644	59,276,352		
RW-1 Pressure (psi)	20	22	21	21		
RW-2 Pressure (psi)	Off	16	15	15		
Combined Pressure (psi)	13	14	13	14		
P-1 Pressure (psi)	13	13	14	13		
P-2 Pressure (psi)	4	18	16	16		
Filter in Pressure (psi)	7	23	18	20		
Filter out Pressure (psi)	0	12	13	12		
Effluent Flow (gpm)	94.21	161.5	160.33	159		
Effluent Total (gallons)	110,389,496	116,674,696	120,976,528	127,412,272		
AIR						
Air Flow (IWC)	4	0.9	0.9	0.9		
Midfluent Vacuum (IWC)	0	0	0	0		
Blower Influent Vacuum (IWC)	12	10	12	12		
Blower Effluent Pressure (IWC)	4	4	5	9		
Carbon 1 Pressure (IWC)	5	6	6	6		
Carbon 1 Temperature (F)	78	82	80	70		
Carbon 2 Pressure (IWC)	3	3	3	3		
Carbon 2 Temperature (F)	78	81	80	69		
NOTES						
Cartridge Filter Bypassed						
Lead Carbon Changeout	Y	N	Y	Y		
Lag Carbon Changeout	N	N	Y	Y		
Water in Sump	N	Y	N	N		
Acid Wash Performed	Y	N	N	N		
Air Samples Collected	Y	Y	Y	Y		
Water Samples Collected	Y	Y	Y	Y		
Well Samples Collected	Y	N	N	N		

Table 4. Summary of TO-14 Stack Vapor Sample Data, July, August, and September 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Reporting Limit (ppb_v)	8/12/03 [Stack] (ppb_v)	9/5/03 [Stack] (ppb_v)	10/3/03 [Stack] (ppb_v)
Freon 12	9.00	ND	ND	0.76
Freon 114	9.00	ND	ND	ND
Chloromethane	9.00	ND	ND	ND
Vinyl Chloride	9.00	5.8	ND	5.3
Bromomethane	9.00	ND	ND	ND
Chloroethane	9.00	ND	ND	ND
Freon 11	9.00	ND	ND	ND
1,1-Dichloroethene	9.00	ND	ND	ND
Freon 113	9.00	ND	ND	ND
Methylene Chloride	9.00	ND	ND	ND
1,1-Dichloroethane	9.00	**2.5**	ND	ND
cis-1,2-Dichloroethene	9.00	**280**	**9.1**	ND
Chloroform	9.00	ND	ND	ND
1,1,1-Trichloroethane	9.00	ND	ND	ND
Carbon Tetrachloride	9.00	ND	ND	ND
Benzene	9.00	ND	ND	ND
1,2-Dichloroethane	9.00	ND	ND	ND
Trichloroethene	9.00	ND	ND	ND
1,2-Dichloropropane	9.00	ND	ND	ND
cis-1,3-Dichloropropene	9.00	ND	ND	ND
Toluene	9.00	ND	ND	ND
trans-1,3-Dichloropropene	9.00	ND	ND	ND
1,1,2-Trichloroethane	9.00	ND	ND	ND
Tetrachloroethene	9.00	ND	ND	ND
Ethylene Dibromide	9.00	ND	ND	ND
Chlorobenzene	9.00	ND	ND	ND
Ethyl Benzene	9.00	ND	ND	ND
m,p-Xylene	9.00	ND	ND	ND
o-Xylene	9.00	ND	ND	ND
Styrene	9.00	ND	ND	ND
1,1,2,2-Tetrachloroethane	9.00	ND	ND	ND
1,3,5-Trimethylbenzene	9.00	ND	ND	ND
1,2,4-Trimethylbenzene	9.00	ND	ND	ND
1,3-Dichlorobenzene	9.00	ND	ND	ND
1,4-Dichlorobenzene	9.00	ND	ND	ND
Chlorotoluene	9.00	ND	ND	ND
1,2-Dichlorobenzene	9.00	ND	ND	ND
1,2,4-Trichlorobenzene	36.00	ND	ND	ND
Hexachlorobutadiene	36.00	ND	ND	ND

Table 4. Summary of TO-14 Stack Vapor Sample Data, July, August, and September 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Reporting Limit (ppb_v)	8/12/03 [Stack] (ppb_v)		9/5/03 [Stack] (ppb_v)	10/3/03 [Stack] (ppb_v)
Propylene	36.0	ND		ND	ND
1,3 Butadiene	36.0	ND		ND	ND
Acetone	36.0	ND		ND	ND
Carbon Disulfide	36.0	ND		ND	ND
2-Propanol	36.0	ND		3.6	ND
trans-1,2-Dichloroethene	36.0	ND		ND	ND
Vinyl Acetate	36.0	ND		ND	ND
2-Butanone (Methyl Ethyl Ketone)	36.0	ND		ND	ND
Hexane	36.0	ND		ND	ND
Tetrahydrofuran	36.0	ND		ND	ND
Cyclohexane	36.0	ND		ND	ND
1,4-Dioxane	36.0	ND		ND	ND
Bromodichloromethane	36.0	ND		ND	ND
4-Methyl-2-pentanone	36.0	ND		ND	ND
2-Hexanone	36.0	ND		ND	ND
Dibromochloromethane	36.0	ND		ND	ND
Bromoform	36.0	ND		ND	ND
4-Ethyltoluene	36.0	ND		ND	ND
Ethanol	36.0	ND		ND	ND
Methyl tert-butyl Ether	36.0	ND	UJ	ND	ND
Heptane	36.0	ND		ND	ND
TOTAL VOCS:		**288.30 ppb_v**		**12.70 ppb_v**	**6.06 ppb_v**
		0.288 ppm_v		**0.013 ppm_v**	**0.006 ppm_v**

ND Compound not detected.
ppb_v Parts per billion by volume.
ppm_v Parts per million by volume.
VOCs Volatile organic compounds.
UJ Non-detected compound associated with the low bias in the CCV.

Table 5. Summary of Vapor Effluent Discharge Rates July, August, and September 2003 Sampling Events, 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)**	8/12/03 Stack Concentration (ppbv)	Air Flow Rate (cfm)	Molecular Weight	VOC Emission Rate (lbs/hr)
Trichloroethene	79-01-6	0.68	0.006	ND	1326	131.39	--
Tetrachloroethene	127-18-4	0.68	0.007	ND	1326	165.83	--
c-1,2-Dichloroethene	156-59-2	0.68	0.003	280	1326	96.94	**0.005688**
1,1,1-Trichloroethane	71-55-6	0.68	0.001	ND	1326	133.4	--
m-Xylene	108-38-3	0.68	0.001	ND	1326	106.17	--
p-Xylene	106-42-3	0.68	0.001	ND	1326	106.17	--
o-Xylene	95-47-6	0.68	0.001	ND	1326	106.17	--
Vinyl Chloride	75-01-4	0.68	0.014	5.8	1326	62.5	0.000076
Freon 12	NA	0.68	NL	ND	1326	120.91	--
Chloromethane	NA	0.68	NL	ND	1326	71.5	--
1,1-Dichloroethene	75-35-4	0.68	NL	ND	1326	96.94	--
Methylene Chloride	75-09-2	0.68	NL	ND	1326	84.9	--
1,1-Dichloroethane	75-34-3	0.68	NL	2.5	1326	98.96	0.000052
Toluene	108-88-3	0.68	NL	ND	1326	92.14	--
Acetone	67-64-1	2.7	NL	ND	1326	58.08	--
2-Butanone	78-93-3	2.7	NL	ND	1326	72.11	--
Tetrahydrofuran	109-99-9	2.7	NL	ND	1326	72.11	--
Ethanol	NA	2.7	NL	ND	1326	45	--
Total			0.034	288.3			0.005816

ND Compound not detected.

ppb_v Parts per billion by volume.

VOCs Volatile organic compounds.

NL No limit specified in permit application.

NA Not Applicable.

Table 5. Summary of Vapor Effluent Discharge Rates July, August, and September 2003 Sampling Events, 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)**	9/5/03 Stack Concentration (ppbv)	Air Flow Rate (cfm)	VOC Emission Rate (lbs/hr)
Trichloroethene	79-01-6	0.68	0.006	ND	1355	---
Tetrachloroethene	127-18-4	0.68	0.007	ND	1355	---
c-1,2-Dichloroethene	156-59-2	0.68	0.003	9.1	1355	0.000189
1,1,1-Trichloroethane	71-55-6	0.68	0.001	ND	1355	---
m-Xylene	108-38-3	0.68	0.001	ND	1355	---
p-Xylene	106-42-3	0.68	0.001	ND	1355	---
o-Xylene	95-47-6	0.68	0.001	ND	1355	---
Vinyl Chloride	75-01-4	0.68	0.014	ND	1355	---
Freon 12	NA	0.68	NL	ND	1355	---
Chloromethane	NA	0.68	NL	ND	1355	---
1,1-Dichloroethene	75-35-4	0.68	NL	ND	1355	---
Methylene Chloride	75-09-2	0.68	NL	ND	1355	---
1,1-Dichloroethane	75-34-3	0.68	NL	ND	1355	---
Toluene	108-88-3	0.68	NL	ND	1355	---
Acetone	67-64-1	2.7	NL	ND	1355	---
2-Butanone	78-93-3	2.7	NL	ND	1355	---
Tetrahydrofuran	109-99-9	2.7	NL	ND	1355	---
Ethanol	NA	2.7	NL	ND	1355	---
Total			0.034	9.1		0.000189

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

Table 5. Summary of Vapor Effluent Discharge Rates July, August, and September 2003 Sampling Events, 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)**	7/11/03 Stack Concentration (ppbv)	Air Flow Rate (cfm)	VOC Emission Rate (lbs/hr)
Trichloroethene	79-01-6	0.67	0.006	ND	1202	---
Tetrachloroethene	127-18-4	0.67	0.007	ND	1202	---
c-1,2-Dichloroethene	156-59-2	0.67	0.003	150	1202	0.002763
1,1,1-Trichloroethane	71-55-6	0.67	0.001	ND	1202	---
m-Xylene	108-38-3	0.67	0.001	ND	1202	---
p-Xylene	106-42-3	0.67	0.001	ND	1202	---
o-Xylene	95-47-6	0.67	0.001	ND	1202	---
Vinyl Chloride	75-01-4	0.67	0.014	2	1202	0.000024
Freon 12	NA	0.67	NL	ND	1202	---
Chloromethane	NA	0.67	NL	ND	1202	---
1,1-Dichloroethene	75-35-4	0.67	NL	0.86	1202	0.000016
Methylene Chloride	75-09-2	0.67	NL	ND	1202	---
1,1-Dichloroethane	75-34-3	0.67	NL	1.8	1202	0.000034
Toluene	108-88-3	0.67	NL	ND	1202	---
Acetone	67-64-1	2.7	NL	6.5	1202	0.000072
2-Butanone	78-93-3	2.7	NL	ND	1202	---
Tetrahydrofuran	109-99-9	2.7	NL	ND	1202	---
Ethanol	NA	2.7	NL	ND	1202	---
Total			0.034	161.16		0.002908

ND Compound not detected.

ppb_v Parts per billion by volume.

VOCs Volatile organic compounds.

NL No limit specified in permit application.

NA Not Applicable.

Appendix A

Laboratory Analytical Results of
Process Vapor Samples
July, August and September 2003
Sampling Events
Active Industrial Uniform Site
67 West Montauk Highway
Lindenhurst, New York, NYSDEC
Contract No. D004134

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0307294

Work Order Summary

CLIENT:	Mr. Eric Killenbeck Mactec, Inc. 14 Washington Road Building 1, Floor 1 Princeton Junction, NJ 08550	**BILL TO:**	Mr. Mark Soliman Bluewater Environmental 1610 New Highway Farmingdale, NY 11735
PHONE:	609-936-0700	**P.O. #**	02370-01830
FAX:	215-860-5360	**PROJECT #**	02370-01830 Active
DATE RECEIVED:	7/15/03	**CONTACT:**	Betty Chu
DATE COMPLETED:	7/25/03		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	STACK	Modified TO-14A	1.5 "Hg
02A	Lab Blank	Modified TO-14A	NA
03A	CCV	Modified TO-14A	NA
04A	LCS	Modified TO-14A	NA

CERTIFIED BY: Linda D. Truman DATE: 07/25/03

Laboratory Director

Certfication numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04
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-14A
Bluewater Environmental
Workorder# 0307294

One 6 Liter Summa Canister sample was received on July 15, 2003. The laboratory performed analysis via modified EPA Method TO-14A 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.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	70-130% recovery	70-130% recovery with two allowed out to 60-140%; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106

Receiving Notes

The chain of custody information for sample STACK was not entered on the sample tag. The discrepancy was noted in the Login email and the information on the chain of custody was used to process and report the sample.

Analytical Notes

The following compound Bromomethane indicated low bias (less than 70% expected recovery) in the daily CCV analyzed on July 21, 2003. Associated non-detects in sample STACK were flagged to indicate estimated results with low bias.

Definition of Data Qualifying Flags

Eight 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 no 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.

UJ- Non-detected compound associated with low bias in the CCV

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: STACK

ID#: 0307294-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072121**	**Date of Collection:**	**7/11/03**
Dil. Factor:	**1.41**	**Date of Analysis:**	**7/22/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.70	3.5	Not Detected	Not Detected
Freon 114	0.70	5.0	Not Detected	Not Detected
Chloromethane	0.70	1.5	Not Detected	Not Detected
Vinyl Chloride	0.70	1.8	2.0	5.2
Bromomethane	0.70	2.8	Not Detected U J	Not Detected U J
Chloroethane	0.70	1.9	Not Detected	Not Detected
Freon 11	0.70	4.0	Not Detected	Not Detected
1,1-Dichloroethene	0.70	2.8	0.86	3.5
Freon 113	0.70	5.5	Not Detected	Not Detected
Methylene Chloride	0.70	2.5	Not Detected	Not Detected
1,1-Dichloroethane	0.70	2.9	1.8	7.3
cis-1,2-Dichloroethene	0.70	2.8	150	620
Chloroform	0.70	3.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.70	3.9	Not Detected	Not Detected
Carbon Tetrachloride	0.70	4.5	Not Detected	Not Detected
Benzene	0.70	2.3	Not Detected	Not Detected
1,2-Dichloroethane	0.70	2.9	Not Detected	Not Detected
Trichloroethene	0.70	3.8	Not Detected	Not Detected
1,2-Dichloropropane	0.70	3.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
Toluene	0.70	2.7	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
1,1,2-Trichloroethane	0.70	3.9	Not Detected	Not Detected
Tetrachloroethene	0.70	4.9	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.70	5.5	Not Detected	Not Detected
Chlorobenzene	0.70	3.3	Not Detected	Not Detected
Ethyl Benzene	0.70	3.1	Not Detected	Not Detected
m,p-Xylene	0.70	3.1	Not Detected	Not Detected
o-Xylene	0.70	3.1	Not Detected	Not Detected
Styrene	0.70	3.0	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.70	4.9	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.70	4.3	Not Detected	Not Detected
1,4-Dichlorobenzene	0.70	4.3	Not Detected	Not Detected
alpha-Chlorotoluene	0.70	3.7	Not Detected	Not Detected
1,2-Dichlorobenzene	0.70	4.3	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.8	21	Not Detected	Not Detected
Hexachlorobutadiene	2.8	30	Not Detected	Not Detected
Propylene	2.8	4.9	Not Detected	Not Detected
1,3-Butadiene	2.8	6.3	Not Detected	Not Detected
Acetone	2.8	6.8	6.5	16

AIR TOXICS LTD.

SAMPLE NAME: STACK

ID#: 0307294-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072121**	**Date of Collection:**	**7/11/03**
Dil. Factor:	**1.41**	**Date of Analysis:**	**7/22/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.8	8.9	Not Detected	Not Detected
2-Propanol	2.8	7.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.8	11	Not Detected	Not Detected
Vinyl Acetate	2.8	10	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	8.4	Not Detected	Not Detected
Hexane	2.8	10	Not Detected	Not Detected
Tetrahydrofuran	2.8	8.4	Not Detected	Not Detected
Cyclohexane	2.8	9.9	Not Detected	Not Detected
1,4-Dioxane	2.8	10	Not Detected	Not Detected
Bromodichloromethane	2.8	19	Not Detected	Not Detected
4-Methyl-2-pentanone	2.8	12	Not Detected	Not Detected
2-Hexanone	2.8	12	Not Detected	Not Detected
Dibromochloromethane	2.8	24	Not Detected	Not Detected
Bromoform	2.8	30	Not Detected	Not Detected
4-Ethyltoluene	2.8	14	Not Detected	Not Detected
Ethanol	2.8	5.4	Not Detected	Not Detected
Methyl tert-butyl ether	2.8	10	Not Detected	Not Detected
Heptane	2.8	12	Not Detected	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0307294-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/03**	

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 U J	Not Detected U J
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#: 0307294-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/03**	

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

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0307294-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/03**	

Compound	%Recovery
Freon 12	97
Freon 114	102
Chloromethane	106
Vinyl Chloride	100
Bromomethane	65 Q
Chloroethane	100
Freon 11	101
1,1-Dichloroethene	106
Freon 113	97
Methylene Chloride	109
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	109
Chloroform	103
1,1,1-Trichloroethane	104
Carbon Tetrachloride	108
Benzene	101
1,2-Dichloroethane	108
Trichloroethene	107
1,2-Dichloropropane	111
cis-1,3-Dichloropropene	106
Toluene	105
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	103
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	105
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	101
Styrene	94
1,1,2,2-Tetrachloroethane	100
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	88
Propylene	107
1,3-Butadiene	103
Acetone	104

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0307294-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i072102	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 7/21/03	

Compound	%Recovery
Carbon Disulfide	97
2-Propanol	105
trans-1,2-Dichloroethene	95
Vinyl Acetate	98
2-Butanone (Methyl Ethyl Ketone)	111
Hexane	105
Tetrahydrofuran	114
Cyclohexane	106
1,4-Dioxane	104
Bromodichloromethane	108
4-Methyl-2-pentanone	114
2-Hexanone	111
Dibromochloromethane	106
Bromoform	102
4-Ethyltoluene	98
Ethanol	110
Methyl tert-butyl ether	93
Heptane	116

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific
E-mail to:samplereceiving@airtoxics.com

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

Contact Person: Mark Solman
Company: Blue Water Env. Inc.
Address: 1610 Newtown City: Farmingdale State: NY Zip: 11735
Phone: (631) 249-1872 x-266 FAX: 631 752 3008
Collected By: Signature: C Fanto

Project Info:
P.O. # 02370-01830
Project # 02370-01830
Project Name: Active

Turn Around Time:
☒ Normal
☐ Rush _____ Specify

mw 7/10/03

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum: Initial	Final	Receipt
01A	STACK	7/11/03 @12pm.	TO-14	Not Recorded		1.5" Hg

Relinquished By: (Signature) Date/Time: Charle Fanto 7/11/03 @12pm.
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time: 7/15/03 Laura A Thomas ATL 1005
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	9371 2530 9457		—	Good	Yes No (None)	0307294

Form 1988 rev. 2B

MICROSEEPS

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

Farmington, NY 11735

Order #: P0308298
Report Date: 08/27/03
Client Proj Name: Active
Client Proj #: 02370-01830

Laboratory Results

Lab Sample #	Client Sample ID
P0308298-01	INFLUENT

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Rebecca J. Adams

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

NOTES:

Order #: P0308298
Report Date: 08/27/03
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 #: P0308298-01

Sample Description	Matrix	Sampled Date/Time	Received
INFLUENT	Vapor	12 Aug. 03 12:00	19 Aug. 03

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	0.006	0.005	PPMV	AM4.02	bw	8/21/03
1,1,2,2-Tetrachloroethane	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
1,1,2-Trichloroethane	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
Benzene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
Bromodichloromethane	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
Bromoform	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
Bromomethane and Chloroethane	<1.0	1.0	PPMV	AM4.02	bw	8/21/03
Carbon Tetrachloride	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
Chlorodibromomethane	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
Chloroform	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
Chloromethane	<1.0	1.0	PPMV	AM4.02	bw	8/21/03
cis-1,2-Dichloroethene	0.48	0.010	PPMV	AM4.02	bw	8/21/03
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	bw	8/21/03
Tetrachloroethene	0.58	0.005	PPMV	AM4.02	bw	8/21/03
Toluene	<0.10	0.10	PPMV	AM4.02	bw	8/21/03
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	bw	8/21/03
Trichloroethene	0.18	0.005	PPMV	AM4.02	bw	8/21/03
Trichlorofluoromethane	<0.005	0.005	PPMV	AM4.02	bw	8/21/03
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	bw	8/21/03

N - NELAC certified analysis

PO308298

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 : 1610 New Hwy Farmingdale NY 11735
Proj. Manager: Mark Soliman.
Proj. Location: Active 67 W Montauk
Proj. Number: 02370-01830
Phone # : 249-1872 ext 266 **Fax # :** 631-752-3008

Sampler's signature : Charles Finto

Parameters Requested

EPA 601/602 VOC

Results to : M Soliman

Invoice to : M Soliman

Cooler ID	Cooler Temp.

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Remarks
01 Influent	Air to VPGAC	8/12/03	12pm		X	2	STANDARD T/A

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Charles Finto	Blue Water	8/12/03	12pm	[illegible]	Microseeps	8/13/03	1035
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 #: 0308354

Work Order Summary

CLIENT:	Mr. Eric Killenbeck Mactec, Inc. 14 Washington Road Building 1, Floor 1 Princeton Junction, NJ 08550	**BILL TO:**	Mr. Mark Soliman Bluewater Environmental 1610 New Highway Farmingdale, NY 11735
PHONE:	609-936-0700	**P.O. #**	02370-01830
FAX:	215-860-5360	**PROJECT #**	02370-01830 Active
DATE RECEIVED:	8/19/03	**CONTACT:**	Betty Chu
DATE COMPLETED:	8/25/03		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	STACK	Modified TO-14A	4.0 "Hg
02A	Lab Blank	Modified TO-14A	NA
03A	CCV	Modified TO-14A	NA
04A	LCS	Modified TO-14A	NA

CERTIFIED BY: Linda D. Frumarx DATE: 08/25/03

Laboratory Director

Certfication numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04
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-14A
Bluewater Environmental
Workorder# 0308354

One 6 Liter Summa Canister sample was received on August 19, 2003. The laboratory performed analysis via modified EPA Method TO-14A 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.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	</= 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day.	CCV surrogate recoveries demonstrate stability
Sample Load Volume	400 mL	Varied to 200 mL

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The following compound MTBE indicated low bias (less than 70% expected recovery) in the daily CCV analyzed on 8-21-03. The associated non-detect in sample STACK was flagged to indicate estimated results with low bias.

Definition of Data Qualifying Flags

Eight 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.

UJ- Non-detected compound associated with low bias in the CCV
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: STACK

ID#: 0308354-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082110**	**Date of Collection:**	**8/12/03**
Dil. Factor:	**3.10**	**Date of Analysis:**	**8/21/03 04:35 PM**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	1.6	7.8	Not Detected	Not Detected
Freon 114	1.6	11	Not Detected	Not Detected
Chloromethane	1.6	3.2	Not Detected	Not Detected
Vinyl Chloride	1.6	4.0	5.8	15
Bromomethane	1.6	6.1	Not Detected	Not Detected
Chloroethane	1.6	4.2	Not Detected	Not Detected
Freon 11	1.6	8.8	Not Detected	Not Detected
1,1-Dichloroethene	1.6	6.2	Not Detected	Not Detected
Freon 113	1.6	12	Not Detected	Not Detected
Methylene Chloride	1.6	5.5	Not Detected	Not Detected
1,1-Dichloroethane	1.6	6.4	2.5	10
cis-1,2-Dichloroethene	1.6	6.2	280	1100
Chloroform	1.6	7.7	Not Detected	Not Detected
1,1,1-Trichloroethane	1.6	8.6	Not Detected	Not Detected
Carbon Tetrachloride	1.6	9.9	Not Detected	Not Detected
Benzene	1.6	5.0	Not Detected	Not Detected
1,2-Dichloroethane	1.6	6.4	Not Detected	Not Detected
Trichloroethene	1.6	8.5	Not Detected	Not Detected
1,2-Dichloropropane	1.6	7.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.6	7.2	Not Detected	Not Detected
Toluene	1.6	5.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	1.6	7.2	Not Detected	Not Detected
1,1,2-Trichloroethane	1.6	8.6	Not Detected	Not Detected
Tetrachloroethene	1.6	11	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	1.6	12	Not Detected	Not Detected
Chlorobenzene	1.6	7.2	Not Detected	Not Detected
Ethyl Benzene	1.6	6.8	Not Detected	Not Detected
m,p-Xylene	1.6	6.8	Not Detected	Not Detected
o-Xylene	1.6	6.8	Not Detected	Not Detected
Styrene	1.6	6.7	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.6	11	Not Detected	Not Detected
1,3,5-Trimethylbenzene	1.6	7.7	Not Detected	Not Detected
1,2,4-Trimethylbenzene	1.6	7.7	Not Detected	Not Detected
1,3-Dichlorobenzene	1.6	9.5	Not Detected	Not Detected
1,4-Dichlorobenzene	1.6	9.5	Not Detected	Not Detected
alpha-Chlorotoluene	1.6	8.2	Not Detected	Not Detected
1,2-Dichlorobenzene	1.6	9.5	Not Detected	Not Detected
1,2,4-Trichlorobenzene	6.2	47	Not Detected	Not Detected
Hexachlorobutadiene	6.2	67	Not Detected	Not Detected
Propylene	6.2	11	Not Detected	Not Detected
1,3-Butadiene	6.2	14	Not Detected	Not Detected
Acetone	6.2	15	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: STACK

ID#: 0308354-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082110**	**Date of Collection: 8/12/03**	
Dil. Factor:	**3.10**	**Date of Analysis: 8/21/03 04:35 PM**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	6.2	20	Not Detected	Not Detected
2-Propanol	6.2	15	Not Detected	Not Detected
trans-1,2-Dichloroethene	6.2	25	Not Detected	Not Detected
Vinyl Acetate	6.2	22	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	18	Not Detected	Not Detected
Hexane	6.2	22	Not Detected	Not Detected
Tetrahydrofuran	6.2	18	Not Detected	Not Detected
Cyclohexane	6.2	22	Not Detected	Not Detected
1,4-Dioxane	6.2	23	Not Detected	Not Detected
Bromodichloromethane	6.2	42	Not Detected	Not Detected
4-Methyl-2-pentanone	6.2	26	Not Detected	Not Detected
2-Hexanone	6.2	26	Not Detected	Not Detected
Dibromochloromethane	6.2	54	Not Detected	Not Detected
Bromoform	6.2	65	Not Detected	Not Detected
4-Ethyltoluene	6.2	31	Not Detected	Not Detected
Ethanol	6.2	12	Not Detected	Not Detected
Methyl tert-butyl ether	6.2	23	Not Detected U J	Not Detected U J
Heptane	6.2	26	Not Detected	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308354-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/03 02:33 PM**	

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#: 0308354-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/03 02:33 PM**	

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 U J	Not Detected U J
Heptane	2.0	8.3	Not Detected	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308354-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	s082102	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 8/21/03 08:34 AM	

Compound	%Recovery
Freon 12	94
Freon 114	110
Chloromethane	101
Vinyl Chloride	102
Bromomethane	92
Chloroethane	86
Freon 11	86
1,1-Dichloroethene	94
Freon 113	85
Methylene Chloride	97
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	93
Chloroform	86
1,1,1-Trichloroethane	84
Carbon Tetrachloride	102
Benzene	85
1,2-Dichloroethane	92
Trichloroethene	84
1,2-Dichloropropane	95
cis-1,3-Dichloropropene	92
Toluene	87
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	88
Tetrachloroethene	89
1,2-Dibromoethane (EDB)	90
Chlorobenzene	87
Ethyl Benzene	88
m,p-Xylene	87
o-Xylene	88
Styrene	84
1,1,2,2-Tetrachloroethane	90
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	81
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	76
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	87
Propylene	111
1,3-Butadiene	97
Acetone	102

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308354-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/03 08:34 AM**	

Compound	%Recovery
Carbon Disulfide	91
2-Propanol	105
trans-1,2-Dichloroethene	89
Vinyl Acetate	82
2-Butanone (Methyl Ethyl Ketone)	107
Hexane	95
Tetrahydrofuran	110
Cyclohexane	90
1,4-Dioxane	90
Bromodichloromethane	93
4-Methyl-2-pentanone	110
2-Hexanone	108
Dibromochloromethane	95
Bromoform	94
4-Ethyltoluene	90
Ethanol	117
Methyl tert-butyl ether	63 Q
Heptane	106

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308354-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/03 09:12 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	119
Chloromethane	114
Vinyl Chloride	120
Bromomethane	119
Chloroethane	117
Freon 11	86
1,1-Dichloroethene	90
Freon 113	84
Methylene Chloride	96
1,1-Dichloroethane	82
cis-1,2-Dichloroethene	95
Chloroform	84
1,1,1-Trichloroethane	82
Carbon Tetrachloride	106
Benzene	91
1,2-Dichloroethane	95
Trichloroethene	89
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	93
Toluene	89
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	89
Tetrachloroethene	94
1,2-Dibromoethane (EDB)	81
Chlorobenzene	87
Ethyl Benzene	88
m,p-Xylene	84
o-Xylene	82
Styrene	87
1,1,2,2-Tetrachloroethane	87
1,3,5-Trimethylbenzene	77
1,2,4-Trimethylbenzene	73
1,3-Dichlorobenzene	80
1,4-Dichlorobenzene	74
alpha-Chlorotoluene	81
1,2-Dichlorobenzene	75
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	89
Propylene	138
1,3-Butadiene	106
Acetone	98

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308354-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s082103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/03 09:12 AM**	

Compound	%Recovery
Carbon Disulfide	92
2-Propanol	106
trans-1,2-Dichloroethene	95
Vinyl Acetate	74
2-Butanone (Methyl Ethyl Ketone)	107
Hexane	92
Tetrahydrofuran	107
Cyclohexane	86
1,4-Dioxane	94
Bromodichloromethane	84
4-Methyl-2-pentanone	110
2-Hexanone	99
Dibromochloromethane	84
Bromoform	70
4-Ethyltoluene	70
Ethanol	126
Methyl tert-butyl ether	70
Heptane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hot line (800) 467-4922

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

Contact Person: Mark P. Ellman
Company: Blue Water Environmental, Inc.
Address: 1619 New Highway City: Farmingdale State: NY Zip: 11735
Phone: 631-249-1872 ext. 266 FAX: 631-752-3038
Collected By: Signature: C. Ferris

Project Info:
P.O. # 02330-01830
Project # 02330-01830
Project Name: ACTIVE

Turn Around Time:
☒ Normal
☐ ~~Rush~~ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum: Initial	Final	Receipt
01A	STACK	8/12/03	TO-14	NOT RECEIVED		4.0

Relinquished By: (Signature) Date/Time: Mark P. Ellman 8/12/03
Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time: Carl Miranda ATL 8/19/03 930

Notes:

Lab Use Only

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #:
FedEx	6328 9880 4025	CA	—	Good	Yes No (None)	0308854

Form 1293 rev. 09

MICROSEEPS

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

Farmington, NY 11735

Order #: P0309173
Report Date: 10/09/03
Client Proj Name: Active
Client Proj #: 02370-01830

Laboratory Results

Total pages in data package: 3

Lab Sample #	Client Sample ID
P0309173-01	INFLUENT

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Valerie Hall

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

NOTES:

P0309173

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 : 1610 New Highway, Farmingdale, NY 11735
Proj. Manager: Mark Sliman
Proj. Location: ACTIVE - 67 W. Montauk Hwy - Lindenhurst, NY
Proj. Number: 02370-01730
Phone # : 631-249-1872 ext. 266 **Fax # :** 631-752-3[illegible]8

Sampler's signature : C-Ferrito

Parameters Requested

EPA 601/602 VOCs

Results to : M. Sliman

Invoice to : M. Sliman

Cooler ID	Cooler Temp.

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Remarks
01 Influent	Arc to VEGAS	9/5/03	12:[illegible]		X	2	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Mark Sliman	Blue Water Env.	9/9/03	1:[illegible]	[illegible]	[illegible]	9/10/03	1530
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

Order #: P0309173
Report Date: 10/09/03
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 #: P0309173-01

Sample Description	Matrix	Sampled Date/Time	Received
INFLUENT	Vapor	05 Sep. 03 12:00	10 Sep. 03

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
Benzene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
Bromomethane and Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	10/7/03
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	10/7/03
cis-1,2-Dichloroethene	0.15	0.010	PPMV	AM4.02	rw	10/7/03
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	10/7/03
Tetrachloroethene	0.29	0.0050	PPMV	AM4.02	rw	10/7/03
Toluene	<0.10	0.10	PPMV	AM4.02	rw	10/7/03
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	10/7/03
Trichloroethene	0.074	0.0050	PPMV	AM4.02	rw	10/7/03
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/7/03
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	10/7/03

N - NELAC certified analysis

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0309200

Work Order Summary

CLIENT:	Mr. Eric Killenbeck Mactec, Inc. 14 Washington Road Building 1, Floor 1 Princeton Junction, NJ 08550	**BILL TO:**	Mr. Mark Soliman Bluewater Environmental 1610 New Highway Farmingdale, NY 11735
PHONE:	609-936-0700	**P.O. #**	02370-1830
FAX:	215-860-5360	**PROJECT #**	02370-1830 Active
DATE RECEIVED:	9/11/03	**CONTACT:**	Betty Chu
DATE COMPLETED:	9/24/03		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	STACK	Modified TO-14A	1.0 "Hg
01AA	STACK Duplicate	Modified TO-14A	1.0 "Hg
02A	Lab Blank	Modified TO-14A	NA
03A	CCV	Modified TO-14A	NA
04A	LCS	Modified TO-14A	NA

CERTIFIED BY: Linda J. Truman DATE: 09/24/03

Laboratory Director

Certfication numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04
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-14A
Bluewater Environmental
Workorder# 0309200

One 6 Liter Summa Canister sample was received on September 11, 2003. The laboratory performed analysis via modified EPA Method TO-14A 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.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	</= 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D
Sample Load Volume	400 mL	Varied to 200 mL

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight 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 no 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.

UJ- Non-detected compound associated with low bias in the CCV

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: STACK

ID#: 0309200-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	s091513	Date of Collection:	9/5/03
Dil. Factor:	1.39	Date of Analysis:	9/15/03 06:06 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.70	3.5	Not Detected	Not Detected
Freon 114	0.70	4.9	Not Detected	Not Detected
Chloromethane	0.70	1.4	Not Detected	Not Detected
Vinyl Chloride	0.70	1.8	Not Detected	Not Detected
Bromomethane	0.70	2.7	Not Detected	Not Detected
Chloroethane	0.70	1.9	Not Detected	Not Detected
Freon 11	0.70	4.0	Not Detected	Not Detected
1,1-Dichloroethene	0.70	2.8	Not Detected	Not Detected
Freon 113	0.70	5.4	Not Detected	Not Detected
Methylene Chloride	0.70	2.4	Not Detected	Not Detected
1,1-Dichloroethane	0.70	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.70	2.8	9.1	37
Chloroform	0.70	3.4	Not Detected	Not Detected
1,1,1-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Carbon Tetrachloride	0.70	4.4	Not Detected	Not Detected
Benzene	0.70	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.70	2.8	Not Detected	Not Detected
Trichloroethene	0.70	3.8	Not Detected	Not Detected
1,2-Dichloropropane	0.70	3.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
Toluene	0.70	2.7	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
1,1,2-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Tetrachloroethene	0.70	4.8	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.70	5.4	Not Detected	Not Detected
Chlorobenzene	0.70	3.2	Not Detected	Not Detected
Ethyl Benzene	0.70	3.1	Not Detected	Not Detected
m,p-Xylene	0.70	3.1	Not Detected	Not Detected
o-Xylene	0.70	3.1	Not Detected	Not Detected
Styrene	0.70	3.0	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.70	4.8	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,4-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
alpha-Chlorotoluene	0.70	3.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.8	21	Not Detected	Not Detected
Hexachlorobutadiene	2.8	30	Not Detected	Not Detected
Propylene	2.8	4.9	Not Detected	Not Detected
1,3-Butadiene	2.8	6.2	Not Detected	Not Detected
Acetone	2.8	6.7	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: STACK

ID#: 0309200-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s091513**	**Date of Collection: 9/5/03**	
Dil. Factor:	**1.39**	**Date of Analysis: 9/15/03 06:06 PM**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.8	8.8	Not Detected	Not Detected
2-Propanol	2.8	6.9	3.6	8.9
trans-1,2-Dichloroethene	2.8	11	Not Detected	Not Detected
Vinyl Acetate	2.8	9.9	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	8.3	Not Detected	Not Detected
Hexane	2.8	10	Not Detected	Not Detected
Tetrahydrofuran	2.8	8.3	Not Detected	Not Detected
Cyclohexane	2.8	9.7	Not Detected	Not Detected
1,4-Dioxane	2.8	10	Not Detected	Not Detected
Bromodichloromethane	2.8	19	Not Detected	Not Detected
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	2.8	12	Not Detected	Not Detected
2-Hexanone	2.8	12	Not Detected	Not Detected
Dibromochloromethane	2.8	24	Not Detected	Not Detected
Bromoform	2.8	29	Not Detected	Not Detected
4-Ethyltoluene	2.8	14	Not Detected	Not Detected
Ethanol	2.8	5.3	Not Detected	Not Detected
Methyl tert-butyl ether	2.8	10	Not Detected	Not Detected
Heptane	2.8	12	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: STACK Duplicate

ID#: 0309200-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	s091514	**Date of Collection:**	9/5/03
Dil. Factor:	1.39	**Date of Analysis:**	9/15/03 06:47 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.70	3.5	Not Detected	Not Detected
Freon 114	0.70	4.9	Not Detected	Not Detected
Chloromethane	0.70	1.4	0.76	1.6
Vinyl Chloride	0.70	1.8	Not Detected	Not Detected
Bromomethane	0.70	2.7	Not Detected	Not Detected
Chloroethane	0.70	1.9	Not Detected	Not Detected
Freon 11	0.70	4.0	Not Detected	Not Detected
1,1-Dichloroethene	0.70	2.8	Not Detected	Not Detected
Freon 113	0.70	5.4	Not Detected	Not Detected
Methylene Chloride	0.70	2.4	Not Detected	Not Detected
1,1-Dichloroethane	0.70	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.70	2.8	8.7	35
Chloroform	0.70	3.4	Not Detected	Not Detected
1,1,1-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Carbon Tetrachloride	0.70	4.4	Not Detected	Not Detected
Benzene	0.70	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.70	2.8	Not Detected	Not Detected
Trichloroethene	0.70	3.8	Not Detected	Not Detected
1,2-Dichloropropane	0.70	3.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
Toluene	0.70	2.7	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
1,1,2-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Tetrachloroethene	0.70	4.8	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.70	5.4	Not Detected	Not Detected
Chlorobenzene	0.70	3.2	Not Detected	Not Detected
Ethyl Benzene	0.70	3.1	Not Detected	Not Detected
m,p-Xylene	0.70	3.1	Not Detected	Not Detected
o-Xylene	0.70	3.1	Not Detected	Not Detected
Styrene	0.70	3.0	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.70	4.8	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,4-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
alpha-Chlorotoluene	0.70	3.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.8	21	Not Detected	Not Detected
Hexachlorobutadiene	2.8	30	Not Detected	Not Detected
Propylene	2.8	4.9	Not Detected	Not Detected
1,3-Butadiene	2.8	6.2	Not Detected	Not Detected
Acetone	2.8	6.7	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: STACK Duplicate

ID#: 0309200-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s091514**	**Date of Collection: 9/5/03**	
Dil. Factor:	**1.39**	**Date of Analysis: 9/15/03 06:47 PM**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.8	8.8	Not Detected	Not Detected
2-Propanol	2.8	6.9	2.9	7.3
trans-1,2-Dichloroethene	2.8	11	Not Detected	Not Detected
Vinyl Acetate	2.8	9.9	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	8.3	Not Detected	Not Detected
Hexane	2.8	10	Not Detected	Not Detected
Tetrahydrofuran	2.8	8.3	Not Detected	Not Detected
Cyclohexane	2.8	9.7	Not Detected	Not Detected
1,4-Dioxane	2.8	10	Not Detected	Not Detected
Bromodichloromethane	2.8	19	Not Detected	Not Detected
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	2.8	12	Not Detected	Not Detected
2-Hexanone	2.8	12	Not Detected	Not Detected
Dibromochloromethane	2.8	24	Not Detected	Not Detected
Bromoform	2.8	29	Not Detected	Not Detected
4-Ethyltoluene	2.8	14	Not Detected	Not Detected
Ethanol	2.8	5.3	Not Detected	Not Detected
Methyl tert-butyl ether	2.8	10	Not Detected	Not Detected
Heptane	2.8	12	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0309200-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s091507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/03 01:02 PM**	

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#: 0309200-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s091507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/03 01:02 PM**	

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 (Methyl Isobutyl Ketone)	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	103	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0309200-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s091502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/03 08:53 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	98
Chloromethane	83
Vinyl Chloride	86
Bromomethane	83
Chloroethane	97
Freon 11	90
1,1-Dichloroethene	87
Freon 113	91
Methylene Chloride	92
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	91
Chloroform	88
1,1,1-Trichloroethane	96
Carbon Tetrachloride	103
Benzene	85
1,2-Dichloroethane	90
Trichloroethene	88
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	100
Toluene	91
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	91
Tetrachloroethene	89
1,2-Dibromoethane (EDB)	92
Chlorobenzene	92
Ethyl Benzene	91
m,p-Xylene	92
o-Xylene	91
Styrene	91
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	87
Propylene	87
1,3-Butadiene	91
Acetone	94

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0309200-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**s091502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/03 08:53 AM**	

Compound	%Recovery
Carbon Disulfide	94
2-Propanol	97
trans-1,2-Dichloroethene	92
Vinyl Acetate	91
2-Butanone (Methyl Ethyl Ketone)	97
Hexane	92
Tetrahydrofuran	93
Cyclohexane	90
1,4-Dioxane	94
Bromodichloromethane	96
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	96
2-Hexanone	98
Dibromochloromethane	99
Bromoform	96
4-Ethyltoluene	93
Ethanol	100
Methyl tert-butyl ether	90
Heptane	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

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

Project info:
P.O. # 02370-01830
Project # 02370-1830
Project Name ACTIVE

Turn Around Time:
☒ Normal
☐ Rush ______ Specify

MW 9/12/03

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	STACK	9/5/03 <12	TO-14	NOT	MEASURED	1.0"Hg

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Mark P. Johnson 9/5/03	
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
	[signature] AAL 9/4/03 1015

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	7923 2473 4404	CA	—	Good	Yes No (None)	0309200

MICROSEEPS

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

Farmington, NY 11735

Order #: P0310100
Report Date: 10/15/03
Client Proj Name: Active
Client Proj #: 02370-01830

Laboratory Results

Total pages in data package: 4

Lab Sample #	Client Sample ID
P0310100-01	INFLUENT
P0310100-02	MIDFLUENT

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Debbie Hall

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

NOTES:Samples are analyzed by headspace analyses and not by 8260 as requested by the client.

P0310100

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
Co. Address : 1610 New Hwy Farmingdale 11735
Proj. Manager: Mark Soliman
Proj. Location: Active 47 Montauk Hwy Lindenhurst
Proj. Number: 02370
Phone # : 631 752 2145 **Fax # :**

Sampler's signature : Chas Fut

Parameters Requested

* VOCs 8260 - Follow previous chain of custody *

Results to : M. Soliman

Invoice to : BWE

Cooler ID	Cooler Temp.

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Remarks
01	Inf Went	10/3	1200am	Air		2	
02	Mid Fluent	"	"	Air		2	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Chas Fut	BWE	10/3/01	1:30pm	K. Welch	Microseeps	10/4/01	1045
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

Order #: P0310100
Report Date: 10/15/03
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 #: P0310100-01

Sample Description	Matrix	Sampled Date/Time	Received
INFLUENT	Vapor	03 Oct. 03 12:00	06 Oct. 03

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Benzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Bromomethane and Chloroethai	<1.0	1.0	PPMV	AM4.02	rw	10/10/03
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	10/10/03
cis-1,2-Dichloroethene	0.27	0.010	PPMV	AM4.02	rw	10/10/03
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	10/10/03
Tetrachloroethene	0.42	0.0050	PPMV	AM4.02	rw	10/10/03
Toluene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
Trichloroethene	0.10	0.0050	PPMV	AM4.02	rw	10/10/03
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	10/10/03

N - NELAC certified analysis

Order #: P0310100
Report Date: 10/15/03
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 #: P0310100-02

Sample Description	Matrix	Sampled Date/Time	Received
MIDFLUENT	Vapor	03 Oct. 03 12:00	06 Oct. 03

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Benzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Bromomethane and Chloroethai	<1.0	1.0	PPMV	AM4.02	rw	10/10/03
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	10/10/03
cis-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	10/10/03
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Toluene	<0.10	0.10	PPMV	AM4.02	rw	10/10/03
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	10/10/03
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	10/10/03
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	10/10/03

N - NELAC certified analysis

Appendix B

Laboratory Analytical Results of
Process Water Samples
July, August and September 2003
Sampling Events
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

08/20/2003

Custody Document: N9206

Received: 08/12/2003 15:07
Sampled by: Charles Ferrito

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Blue Water

NY
Area: Active 67 Montauk HWY. Lindenhurst

Manager: Tom Spatafora

Respectfully submitted,

Patricia Werner-Els
Quality Assurance Officer

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

08/20/2003

Volatile Compounds - EPA 8260B

Sample: N9206-1
Client Sample ID: Influent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 08/14/2003

Type: Grab

Collected: 08/12/2003 13:30

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A1063-2527	0.29	0.29	ppb	U
75-45-6	Chlorodifluoromethane	A1063-2527	0.31	0.31	ppb	U
74-87-3	Chloromethane	A1063-2527	0.31	0.31	ppb	U
75-01-4	Vinyl Chloride	A1063-2527	0.28	0.28	ppb	U
74-83-9	Bromomethane	A1063-2527	0.45	0.45	ppb	U
75-00-3	Chloroethane	A1063-2527	0.44	0.44	ppb	U
75-69-4	Trichlorofluoromethane	A1063-2527	0.48	0.48	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	A1063-2527	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	A1063-2527	0.23	0.23	ppb	U
67-64-1	Acetone	A1063-2527	1.41	1.41	ppb	U
75-15-0	Carbon disulfide	A1063-2527	0.26	0.26	ppb	U
75-09-2	Methylene Chloride	A1063-2527	0.15	0.15	ppb	U
156-60-5	trans-1,2-Dichloroethene	A1063-2527	0.22	0.22	ppb	U
1634-04-4	Methyl t-butyl ether	A1063-2527	0.053	**4.92**	ppb	
75-34-3	1,1-Dichloroethane	A1063-2527	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	A1063-2527	0.37	0.37	ppb	U
156-59-2	cis-1,2-Dichloroethene	A1063-2527	0.16	**90.7**	ppb	
78-93-3	2-Butanone	A1063-2527	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	A1063-2527	0.066	0.066	ppb	U
67-66-3	Chloroform	A1063-2527	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	A1063-2527	0.22	**1.88**	ppb	
56-23-5	Carbon Tetrachloride	A1063-2527	0.32	0.32	ppb	U
563-58-6	1,1-Dichloropropene	A1063-2527	0.40	0.40	ppb	U
71-43-2	Benzene	A1063-2527	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	A1063-2527	0.17	0.17	ppb	U
79-01-6	Trichloroethene	A1063-2527	0.21	**67.0**	ppb	
78-87-5	1,2-Dichloropropane	A1063-2527	0.15	0.15	ppb	U
74-95-3	Dibromomethane	A1063-2527	0.072	0.072	ppb	U
75-27-4	Bromodichloromethane	A1063-2527	0.084	0.084	ppb	U
110-75-8	2-Chloroethylvinylether	A1063-2527	0.83	0.83	ppb	U
10061-01-5	cis-1,3-Dichloropropene	A1063-2527	0.062	0.062	ppb	U
108-10-1	4-Methyl-2-pentanone	A1063-2527	1.44	1.44	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

08/20/2003

Volatile Compounds - EPA 8260B

Sample: N9206-1

Client Sample ID: Influent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 08/14/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	A1063-2527	0.20	0.20	ppb	U
10061-02-6	trans-1,3-Dichloropropene	A1063-2527	0.12	0.12	ppb	U
79-00-5	1,1,2-Trichloroethane	A1063-2527	0.15	0.15	ppb	U
127-18-4	Tetrachloroethene	A1064-2542	3.80	**357**	ppb	
142-28-9	1,3-Dichloropropane	A1063-2527	0.040	0.040	ppb	U
591-78-6	2-Hexanone	A1063-2527	1.44	1.44	ppb	U
124-48-1	Dibromochloromethane	A1063-2527	0.044	0.044	ppb	U
106-93-4	1,2-Dibromoethane	A1063-2527	0.097	0.097	ppb	U
108-90-7	Chlorobenzene	A1063-2527	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	A1063-2527	0.061	0.061	ppb	U
100-41-4	Ethylbenzene	A1063-2527	0.12	0.12	ppb	U
108-38-3	m,p-xylene	A1063-2527	0.24	0.24	ppb	U
95-47-6	o-xylene	A1063-2527	0.12	0.12	ppb	U
100-42-5	Styrene	A1063-2527	0.080	0.080	ppb	U
75-25-2	Bromoform	A1063-2527	0.073	0.073	ppb	U
98-82-8	Isopropylbenzene	A1063-2527	0.14	0.14	ppb	U
108-86-1	Bromobenzene	A1063-2527	0.11	0.11	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	A1063-2527	0.094	0.094	ppb	U
103-65-1	n-Propylbenzene	A1063-2527	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	A1063-2527	0.047	0.047	ppb	U
622-96-8	p-Ethyltoluene	A1063-2527	0.15	0.15	ppb	U
108-67-8	1,3,5-Trimethylbenzene	A1063-2527	0.17	0.17	ppb	U
95-49-8	2-Chlorotoluene	A1063-2527	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	A1063-2527	0.072	0.072	ppb	U
98-06-6	tert-Butylbenzene	A1063-2527	0.12	0.12	ppb	U
95-63-6	1,2,4-Trimethylbenzene	A1063-2527	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	A1063-2527	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	A1063-2527	0.16	0.16	ppb	U
541-73-1	1,3-Dichlorobenzene	A1063-2527	0.047	0.047	ppb	U
106-46-7	1,4-Dichlorobenzene	A1063-2527	0.17	0.17	ppb	U
95-50-1	1,2-Dichlorobenzene	A1063-2527	0.065	0.065	ppb	U
105-05-5	p-Diethylbenzene	A1063-2527	0.17	0.17	ppb	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

08/20/2003

Volatile Compounds - EPA 8260B

Sample: N9206-1
Client Sample ID: Influent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 08/14/2003

Type: Grab

Collected: 08/12/2003 13:30

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	A1063-2527	0.26	0.26	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	A1063-2527	0.23	0.23	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	A1063-2527	0.25	0.25	ppb	U
120-82-1	1,2,4-Trichlorobenzene	A1063-2527	0.14	0.14	ppb	U
87-68-3	Hexachlorobutadiene	A1063-2527	0.19	0.19	ppb	U
91-20-3	Naphthalene	A1063-2527	0.40	0.40	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1063-2527	97.3 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1063-2527	98.3 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1063-2527	98.0 %	(89 - 122)	
460-00-4	4-BROMOFLUOROBENZENE	A1064-2542	95.1 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1064-2542	96.2 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1064-2542	97.3 %	(89 - 122)	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

08/20/2003

Volatile Compounds - EPA 8260B

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 08/14/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A1063-2528	0.29	0.29	ppb	U
75-45-6	Chlorodifluoromethane	A1063-2528	0.31	0.31	ppb	U
74-87-3	Chloromethane	A1063-2528	0.31	0.31	ppb	U
75-01-4	Vinyl Chloride	A1063-2528	0.28	0.28	ppb	U
74-83-9	Bromomethane	A1063-2528	0.45	0.45	ppb	U
75-00-3	Chloroethane	A1063-2528	0.44	0.44	ppb	U
75-69-4	Trichlorofluoromethane	A1063-2528	0.48	0.48	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	A1063-2528	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	A1063-2528	0.23	0.23	ppb	U
67-64-1	Acetone	A1063-2528	1.41	1.41	ppb	U
75-15-0	Carbon disulfide	A1063-2528	0.26	0.26	ppb	U
75-09-2	Methylene Chloride	A1063-2528	0.15	0.15	ppb	U
156-60-5	trans-1,2-Dichloroethene	A1063-2528	0.22	0.22	ppb	U
1634-04-4	Methyl t-butyl ether	A1063-2528	0.053	**1.73**	ppb	
75-34-3	1,1-Dichloroethane	A1063-2528	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	A1063-2528	0.37	0.37	ppb	U
156-59-2	cis-1,2-Dichloroethene	A1063-2528	0.16	0.16	ppb	U
78-93-3	2-Butanone	A1063-2528	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	A1063-2528	0.066	0.066	ppb	U
67-66-3	Chloroform	A1063-2528	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	A1063-2528	0.22	0.22	ppb	U
56-23-5	Carbon Tetrachloride	A1063-2528	0.32	0.32	ppb	U
563-58-6	1,1-Dichloropropene	A1063-2528	0.40	0.40	ppb	U
71-43-2	Benzene	A1063-2528	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	A1063-2528	0.17	0.17	ppb	U
79-01-6	Trichloroethene	A1063-2528	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	A1063-2528	0.15	0.15	ppb	U
74-95-3	Dibromomethane	A1063-2528	0.072	0.072	ppb	U
75-27-4	Bromodichloromethane	A1063-2528	0.084	0.084	ppb	U
110-75-8	2-Chloroethylvinylether	A1063-2528	0.83	0.83	ppb	U
10061-01-5	cis-1,3-Dichloropropene	A1063-2528	0.062	0.062	ppb	U
108-10-1	4-Methyl-2-pentanone	A1063-2528	1.44	1.44	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

08/20/2003

Volatile Compounds - EPA 8260B

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 08/14/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	A1063-2528	0.20	0.20	ppb	U
10061-02-6	trans-1,3-Dichloropropene	A1063-2528	0.12	0.12	ppb	U
79-00-5	1,1,2-Trichloroethane	A1063-2528	0.15	0.15	ppb	U
127-18-4	Tetrachloroethene	A1063-2528	0.38	0.38	ppb	U
142-28-9	1,3-Dichloropropane	A1063-2528	0.040	0.040	ppb	U
591-78-6	2-Hexanone	A1063-2528	1.44	1.44	ppb	U
124-48-1	Dibromochloromethane	A1063-2528	0.044	0.044	ppb	U
106-93-4	1,2-Dibromoethane	A1063-2528	0.097	0.097	ppb	U
108-90-7	Chlorobenzene	A1063-2528	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	A1063-2528	0.061	0.061	ppb	U
100-41-4	Ethylbenzene	A1063-2528	0.12	0.12	ppb	U
108-38-3	m,p-xylene	A1063-2528	0.24	0.24	ppb	U
95-47-6	o-xylene	A1063-2528	0.12	0.12	ppb	U
100-42-5	Styrene	A1063-2528	0.080	0.080	ppb	U
75-25-2	Bromoform	A1063-2528	0.073	0.073	ppb	U
98-82-8	Isopropylbenzene	A1063-2528	0.14	0.14	ppb	U
108-86-1	Bromobenzene	A1063-2528	0.11	0.11	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	A1063-2528	0.094	0.094	ppb	U
103-65-1	n-Propylbenzene	A1063-2528	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	A1063-2528	0.047	0.047	ppb	U
622-96-8	p-Ethyltoluene	A1063-2528	0.15	0.15	ppb	U
108-67-8	1,3,5-Trimethylbenzene	A1063-2528	0.17	0.17	ppb	U
95-49-8	2-Chlorotoluene	A1063-2528	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	A1063-2528	0.072	0.072	ppb	U
98-06-6	tert-Butylbenzene	A1063-2528	0.12	0.12	ppb	U
95-63-6	1,2,4-Trimethylbenzene	A1063-2528	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	A1063-2528	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	A1063-2528	0.16	0.16	ppb	U
541-73-1	1,3-Dichlorobenzene	A1063-2528	0.047	0.047	ppb	U
106-46-7	1,4-Dichlorobenzene	A1063-2528	0.17	0.17	ppb	U
95-50-1	1,2-Dichlorobenzene	A1063-2528	0.065	0.065	ppb	U
105-05-5	p-Diethylbenzene	A1063-2528	0.17	0.17	ppb	U

Environmental Testing Laboratories, Inc.

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

08/20/2003

Volatile Compounds - EPA 8260B

Sample: N9206-2
Client Sample ID: Effluent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 08/14/2003

Type: Grab

Collected: 08/12/2003 13:30

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	A1063-2528	0.26	0.26	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	A1063-2528	0.23	0.23	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	A1063-2528	0.25	0.25	ppb	U
120-82-1	1,2,4-Trichlorobenzene	A1063-2528	0.14	0.14	ppb	U
87-68-3	Hexachlorobutadiene	A1063-2528	0.19	0.19	ppb	U
91-20-3	Naphthalene	A1063-2528	0.40	0.40	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1063-2528	97.3 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1063-2528	99.0 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1063-2528	98.3 %	(89 - 122)	

Environmental Testing Laboratories, Inc.

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08/20/2003

Mercury by Method SW846 7470/7471-EPA 245

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/19/2003

Preparation Date(s) : 08/19/2003

Analytical Results

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

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08/20/2003

TAL Metals by Method SW846 6010

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/19/2003

Preparation Date(s) : 08/19/2003 08/14/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	0.013	ppm	U
7440-36-0	Antimony	0.0020	**0.0085**	ppm	
7440-38-2	Arsenic	0.0034	**0.040**	ppm	
7440-39-3	Barium	0.00040	**0.040**	ppm	
7440-41-7	Beryllium	0.00020	**0.0010**	ppm	
7440-43-9	Cadmium	0.00030	**0.00080**	ppm	
7440-70-2	Calcium	0.026	**73.2**	ppm	
7440-47-3	Chromium	0.0016	0.0016	ppm	U
7440-48-4	Cobalt	0.00040	0.00040	ppm	U
7440-50-8	Copper	0.0029	0.0029	ppm	U
7439-89-6	Iron	0.018	**0.41**	ppm	
7439-92-1	Lead	0.0017	**0.0050**	ppm	
7439-95-4	Magnesium	0.027	**82.8**	ppm	
7439-96-5	Manganese	0.00080	**2.08**	ppm	
7440-02-0	Nickel	0.00050	**0.0016**	ppm	
7440-09-7	Potassium	0.052	**39.8**	ppm	
7782-49-2	Selenium	0.0043	**0.041**	ppm	
7440-22-4	Silver	0.0010	**0.0010**	ppm	
7440-23-5	Sodium	0.022	**682**	ppm	
7440-28-0	Thallium	0.0020	**0.050**	ppm	
7440-62-2	Vanadium	0.00050	0.00050	ppm	U
7440-66-6	Zinc	0.0044	**0.0087**	ppm	

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08/20/2003

Alkalinity - EPA 310.1

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/19/2003

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	**38.0**	ppm	

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08/20/2003

Chemical Oxygen Demand (COD) - EPA 410.4

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/14/2003

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	123	ppm	

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08/20/2003

Residual Chlorine - EPA 330.3/330.3M

Sample: N9206-2
Client Sample ID: Effluent
Matrix: Liquid
Remarks:
Analyzed Date: 08/12/2003

Collected: 08/12/2003 13:30
Type: Grab

Analytical Results

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

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08/20/2003

Total Dissolved Solids - 2540C

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/14/2003

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	Total Dissolved Solids	9.92	**2540**	mg/l	

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08/20/2003

Total Suspended Solids - EPA 160.2/SM 2540D

Sample: N9206-2

Client Sample ID: Effluent

Collected: 08/12/2003 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 08/14/2003

Analytical Results

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

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08/20/2003

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 indicates a system monitoring 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)

x - Outside Expected Range

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 09206

Project Name: Active | Project Manager: M. Soliman. | Sampler (Signature): C Ferrito (Print): Charles Ferrito

Project Address: 67 w Montauk Lindenhurst

Client BWE J/N: 02370 | ☐ 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	8/12/03	1:30 pm	G	L	Influent	2			x				x	CR							
2	8/12/03	1:30	G	L	Effluent.	5			x				x				x	x	x	x	x
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
Charles Ferrito	8/12/03 304	Charles Ferrito			
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received for Lab by (Signature):	Date 8/12 / Time 1507	Printed Name Ronald

Comments & Special Instructions	QA/QC Type:	Number & Type of Containers:	Preservatives:	Temp:
P.O. 10107		1-1000P 1-250P 4-VOAS AMBER	HCL 1303	5°C

SHIPPING COPY

Environmental Testing Laboratories, Inc.

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

9/16/03

Custody Document: R1297

Received: 9/5/03 15:01
Sampled by: Charles Ferrito

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Active Industrial

67 West Montauk Hwy
Lindenhurst,
NY

Manager: Mark Soliman

Respectfully submitted,

Patricia Werner-Els

Quality Assurance Officer

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

9/16/03

Volatile Compounds - EPA 8260B

Sample: R1297-1
Client Sample ID: Influent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 9/9/03

Type: Grab

Collected: 9/5/03 13:30

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A1088-3046	0.29	0.29	ppb	U
75-45-6	Chlorodifluoromethane	A1088-3046	0.31	0.31	ppb	U
74-87-3	Chloromethane	A1088-3046	0.31	0.31	ppb	U
75-01-4	Vinyl Chloride	A1088-3046	0.28	0.28	ppb	U
74-83-9	Bromomethane	A1088-3046	0.45	0.45	ppb	U
75-00-3	Chloroethane	A1088-3046	0.44	0.44	ppb	U
75-69-4	Trichlorofluoromethane	A1088-3046	0.48	0.48	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	A1088-3046	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	A1088-3046	0.23	0.23	ppb	U
67-64-1	Acetone	A1088-3046	1.41	1.41	ppb	U
75-15-0	Carbon disulfide	A1088-3046	0.26	0.26	ppb	U
75-09-2	Methylene Chloride	A1088-3046	0.15	0.15	ppb	U
156-60-5	trans-1,2-Dichloroethene	A1088-3046	0.22	0.22	ppb	U
1634-04-4	Methyl t-butyl ether	A1088-3046	0.053	**5.74**	ppb	
75-34-3	1,1-Dichloroethane	A1088-3046	0.22	**0.85**	ppb	
590-20-7	2,2-Dichloropropane	A1088-3046	0.37	0.37	ppb	U
156-59-2	cis-1,2-Dichloroethene	A1088-3046	0.16	**85.7**	ppb	
78-93-3	2-Butanone	A1088-3046	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	A1088-3046	0.066	0.066	ppb	U
67-66-3	Chloroform	A1088-3046	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	A1088-3046	0.22	**1.57**	ppb	
56-23-5	Carbon Tetrachloride	A1088-3046	0.32	0.32	ppb	U
563-58-6	1,1-Dichloropropene	A1088-3046	0.40	0.40	ppb	U
71-43-2	Benzene	A1088-3046	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	A1088-3046	0.17	0.17	ppb	U
79-01-6	Trichloroethene	A1088-3046	0.21	**68.8**	ppb	
78-87-5	1,2-Dichloropropane	A1088-3046	0.15	0.15	ppb	U
74-95-3	Dibromomethane	A1088-3046	0.072	0.072	ppb	U
75-27-4	Bromodichloromethane	A1088-3046	0.084	0.084	ppb	U
110-75-8	2-Chloroethylvinylether	A1088-3046	0.83	0.83	ppb	U
10061-01-5	cis-1,3-Dichloropropene	A1088-3046	0.062	0.062	ppb	U
108-10-1	4-Methyl-2-pentanone	A1088-3046	1.44	1.44	ppb	U

Environmental Testing Laboratories, Inc.

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9/16/03

Volatile Compounds - EPA 8260B

Sample: R1297-1
Client Sample ID: Influent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 9/9/03

Type: Grab

Collected: 9/5/03 13:30

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	A1088-3046	0.20	0.20	ppb	U
10061-02-6	trans-1,3-Dichloropropene	A1088-3046	0.12	0.12	ppb	U
79-00-5	1,1,2-Trichloroethane	A1088-3046	0.15	0.15	ppb	U
127-18-4	Tetrachloroethene	A1089-3072	1.90	**416**	ppb	
142-28-9	1,3-Dichloropropane	A1088-3046	0.040	0.040	ppb	U
591-78-6	2-Hexanone	A1088-3046	1.44	1.44	ppb	U
124-48-1	Dibromochloromethane	A1088-3046	0.044	0.044	ppb	U
106-93-4	1,2-Dibromoethane	A1088-3046	0.097	0.097	ppb	U
108-90-7	Chlorobenzene	A1088-3046	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	A1088-3046	0.061	0.061	ppb	U
100-41-4	Ethylbenzene	A1088-3046	0.12	0.12	ppb	U
108-38-3	m,p-xylene	A1088-3046	0.24	0.24	ppb	U
95-47-6	o-xylene	A1088-3046	0.12	0.12	ppb	U
100-42-5	Styrene	A1088-3046	0.080	0.080	ppb	U
75-25-2	Bromoform	A1088-3046	0.073	0.073	ppb	U
98-82-8	Isopropylbenzene	A1088-3046	0.14	0.14	ppb	U
108-86-1	Bromobenzene	A1088-3046	0.11	0.11	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	A1088-3046	0.094	0.094	ppb	U
103-65-1	n-Propylbenzene	A1088-3046	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	A1088-3046	0.047	0.047	ppb	U
622-96-8	p-Ethyltoluene	A1088-3046	0.15	0.15	ppb	U
108-67-8	1,3,5-Trimethylbenzene	A1088-3046	0.17	0.17	ppb	U
95-49-8	2-Chlorotoluene	A1088-3046	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	A1088-3046	0.072	0.072	ppb	U
98-06-6	tert-Butylbenzene	A1088-3046	0.12	0.12	ppb	U
95-63-6	1,2,4-Trimethylbenzene	A1088-3046	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	A1088-3046	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	A1088-3046	0.16	0.16	ppb	U
541-73-1	1,3-Dichlorobenzene	A1088-3046	0.047	0.047	ppb	U
106-46-7	1,4-Dichlorobenzene	A1088-3046	0.17	0.17	ppb	U
95-50-1	1,2-Dichlorobenzene	A1088-3046	0.065	0.065	ppb	U
105-05-5	p-Diethylbenzene	A1088-3046	0.17	0.17	ppb	U

Environmental Testing Laboratories, Inc.

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9/16/03

Volatile Compounds - EPA 8260B

Sample: R1297-1

Client Sample ID: Influent
Collected: 9/5/03 13:30
Matrix: Liquid
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 9/9/03

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	A1088-3046	0.26	0.26	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	A1088-3046	0.23	0.23	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	A1088-3046	0.25	0.25	ppb	U
120-82-1	1,2,4-Trichlorobenzene	A1088-3046	0.14	0.14	ppb	U
87-68-3	Hexachlorobutadiene	A1088-3046	0.19	0.19	ppb	U
91-20-3	Naphthalene	A1088-3046	0.40	0.40	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1088-3046	99.0 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1088-3046	98.8 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1088-3046	99.9 %	(89 - 122)	
460-00-4	4-BROMOFLUOROBENZENE	A1089-3072	98.9 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1089-3072	99.2 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1089-3072	98.9 %	(89 - 122)	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

9/16/03

Volatile Compounds - EPA 8260B

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 9/10/03

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A1089-3073	0.29	0.29	ppb	U
75-45-6	Chlorodifluoromethane	A1089-3073	0.31	0.31	ppb	U
74-87-3	Chloromethane	A1089-3073	0.31	0.31	ppb	U
75-01-4	Vinyl Chloride	A1089-3073	0.28	0.28	ppb	U
74-83-9	Bromomethane	A1089-3073	0.45	0.45	ppb	U
75-00-3	Chloroethane	A1089-3073	0.44	0.44	ppb	U
75-69-4	Trichlorofluoromethane	A1089-3073	0.48	0.48	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	A1089-3073	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	A1089-3073	0.23	0.23	ppb	U
67-64-1	Acetone	A1089-3073	1.41	1.41	ppb	U
75-15-0	Carbon disulfide	A1089-3073	0.26	0.26	ppb	U
75-09-2	Methylene Chloride	A1089-3073	0.15	0.15	ppb	U
156-60-5	trans-1,2-Dichloroethene	A1089-3073	0.22	0.22	ppb	U
1634-04-4	Methyl t-butyl ether	A1089-3073	0.053	**1.98**	ppb	
75-34-3	1,1-Dichloroethane	A1089-3073	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	A1089-3073	0.37	0.37	ppb	U
156-59-2	cis-1,2-Dichloroethene	A1089-3073	0.16	0.16	ppb	U
78-93-3	2-Butanone	A1089-3073	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	A1089-3073	0.066	0.066	ppb	U
67-66-3	Chloroform	A1089-3073	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	A1089-3073	0.22	0.22	ppb	U
56-23-5	Carbon Tetrachloride	A1089-3073	0.32	0.32	ppb	U
563-58-6	1,1-Dichloropropene	A1089-3073	0.40	0.40	ppb	U
71-43-2	Benzene	A1089-3073	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	A1089-3073	0.17	0.17	ppb	U
79-01-6	Trichloroethene	A1089-3073	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	A1089-3073	0.15	0.15	ppb	U
74-95-3	Dibromomethane	A1089-3073	0.072	0.072	ppb	U
75-27-4	Bromodichloromethane	A1089-3073	0.084	0.084	ppb	U
110-75-8	2-Chloroethylvinylether	A1089-3073	0.83	0.83	ppb	U
10061-01-5	cis-1,3-Dichloropropene	A1089-3073	0.062	0.062	ppb	U
108-10-1	4-Methyl-2-pentanone	A1089-3073	1.44	1.44	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

9/16/03

Volatile Compounds - EPA 8260B

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 9/10/03

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	A1089-3073	0.20	0.20	ppb	U
10061-02-6	trans-1,3-Dichloropropene	A1089-3073	0.12	0.12	ppb	U
79-00-5	1,1,2-Trichloroethane	A1089-3073	0.15	0.15	ppb	U
127-18-4	Tetrachloroethene	A1089-3073	0.38	0.38	ppb	U
142-28-9	1,3-Dichloropropane	A1089-3073	0.040	0.040	ppb	U
591-78-6	2-Hexanone	A1089-3073	1.44	1.44	ppb	U
124-48-1	Dibromochloromethane	A1089-3073	0.044	0.044	ppb	U
106-93-4	1,2-Dibromoethane	A1089-3073	0.097	0.097	ppb	U
108-90-7	Chlorobenzene	A1089-3073	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	A1089-3073	0.061	0.061	ppb	U
100-41-4	Ethylbenzene	A1089-3073	0.12	0.12	ppb	U
108-38-3	m,p-xylene	A1089-3073	0.24	0.24	ppb	U
95-47-6	o-xylene	A1089-3073	0.12	0.12	ppb	U
100-42-5	Styrene	A1089-3073	0.080	0.080	ppb	U
75-25-2	Bromoform	A1089-3073	0.073	0.073	ppb	U
98-82-8	Isopropylbenzene	A1089-3073	0.14	0.14	ppb	U
108-86-1	Bromobenzene	A1089-3073	0.11	0.11	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	A1089-3073	0.094	0.094	ppb	U
103-65-1	n-Propylbenzene	A1089-3073	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	A1089-3073	0.047	0.047	ppb	U
622-96-8	p-Ethyltoluene	A1089-3073	0.15	0.15	ppb	U
108-67-8	1,3,5-Trimethylbenzene	A1089-3073	0.17	0.17	ppb	U
95-49-8	2-Chlorotoluene	A1089-3073	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	A1089-3073	0.072	0.072	ppb	U
98-06-6	tert-Butylbenzene	A1089-3073	0.12	0.12	ppb	U
95-63-6	1,2,4-Trimethylbenzene	A1089-3073	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	A1089-3073	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	A1089-3073	0.16	0.16	ppb	U
541-73-1	1,3-Dichlorobenzene	A1089-3073	0.047	0.047	ppb	U
106-46-7	1,4-Dichlorobenzene	A1089-3073	0.17	0.17	ppb	U
95-50-1	1,2-Dichlorobenzene	A1089-3073	0.065	0.065	ppb	U
105-05-5	p-Diethylbenzene	A1089-3073	0.17	0.17	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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9/16/03

Volatile Compounds - EPA 8260B

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 9/10/03

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	A1089-3073	0.26	0.26	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	A1089-3073	0.23	0.23	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	A1089-3073	0.25	0.25	ppb	U
120-82-1	1,2,4-Trichlorobenzene	A1089-3073	0.14	0.14	ppb	U
87-68-3	Hexachlorobutadiene	A1089-3073	0.19	0.19	ppb	U
91-20-3	Naphthalene	A1089-3073	0.40	0.40	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1089-3073	98.6 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1089-3073	99.4 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1089-3073	99.5 %	(89 - 122)	

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9/16/03

Mercury by Method SW846 7470/7471-EPA 245

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 9/8/03

Preparation Date(s) : 9/8/03

Analytical Results

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

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9/16/03

TAL Metals by Method SW846 6010

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 9/12/03

Preparation Date(s) : 9/8/03 9/9/03

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	**0.019**	ppm	E
7440-36-0	Antimony	0.0020	**0.012**	ppm	
7440-38-2	Arsenic	0.0097	**0.017**	ppm	
7440-39-3	Barium	0.00060	**0.026**	ppm	
7440-41-7	Beryllium	0.00020	0.00020	ppm	U
7440-43-9	Cadmium	0.00070	0.00070	ppm	U
7440-70-2	Calcium	0.026	**75.3**	ppm	
7440-47-3	Chromium	0.0010	0.0010	ppm	U
7440-48-4	Cobalt	0.00060	**0.0025**	ppm	
7440-50-8	Copper	0.0031	**0.069**	ppm	
7439-89-6	Iron	0.018	**0.23**	ppm	
7439-92-1	Lead	0.0024	0.0024	ppm	U
7439-95-4	Magnesium	0.053	**75.6**	ppm	
7439-96-5	Manganese	0.00060	**1.92**	ppm	
7440-02-0	Nickel	0.0017	**0.0068**	ppm	
7440-09-7	Potassium	0.052	**33.7**	ppm	
7782-49-2	Selenium	0.0034	0.0034	ppm	U
7440-22-4	Silver	0.00030	**0.0076**	ppm	
7440-23-5	Sodium	0.043	**586**	ppm	
7440-28-0	Thallium	0.0044	0.0044	ppm	U
7440-62-2	Vanadium	0.00040	**0.00050**	ppm	E
7440-66-6	Zinc	0.0058	**0.37**	ppm	

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9/16/03

Alkalinity - EPA 310.1

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 9/8/03

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	**48.0**	ppm	

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9/16/03

Chemical Oxygen Demand (COD) - EPA 410.4

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 9/12/03

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	**89.1**	ppm	

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9/16/03

Residual Chlorine - EPA 330.3/330.3M

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 9/5/03

Analytical Results

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

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9/16/03

Total Dissolved Solids - 2540C

Sample: R1297-2

Client Sample ID: Effluent

Matrix: Liquid

Remarks:

Analyzed Date: 9/8/03

Type: Grab

Collected: 9/5/03 13:30

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	Total Dissolved Solids	9.92	**2610**	mg/l	

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9/16/03

Total Suspended Solids - EPA 160.2/SM 2540D

Sample: R1297-2

Client Sample ID: Effluent

Collected: 9/5/03 13:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 9/8/03

Analytical Results

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

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9/16/03

Case Narrative

8260:

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-Chloroethylvinylether 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.

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9/16/03

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 indicates a system monitoring 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)

x - Outside Expected Range

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

R 1297

Project Name: Active | Project Manager: M. Soliman | Sampler (Signature): Charles Ferrito (Print): Charles Ferrito

Project Address: 67 W Montauk Hwy Lindenhurst NY

Client Bluewater | J/N: 02370/01330 | ☐ 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	TSS 160.2	TSS 160.1	COD 410.1-2	Res Chlorine	Alkalinity
1	9/5/03	1:30	G	L	Influent	2			1					EB							
2	9/5	1:30	G	L	EFFluent	5			1				1				1	1	1	1	1
3	9/5		G																		
4	9/5																				
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
x [signature]	9/5/03 2:50	x Charles Ferrito BWE			
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received for Lab by (Signature):	Date 9/5/03 / Time	Printed Name P. Anton
Comments & Special Instructions		QA/QC Type:	Number & Type of Containers: 1-1000mL 1-500g 1250	Preservatives: HCl HNO_3	Temp: 5°

SHIPPING COPY

Environmental Testing Laboratories, Inc.

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

10/14/2003

Custody Document: S1043

Received: 10/03/2003 15:00
Sampled by: Charles Ferrito

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Active Industrial

67 West Montauk Hwy
Lindenhurst,
NY

Manager: Mark Soliman

Respectfully submitted,

Patricia Werner-Els
Quality Assurance Officer

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-1
Client Sample ID: RW1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/09/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C1118-3541	0.17	0.17	ppb	U
75-45-6	Chlorodifluoromethane	C1118-3541	0.15	0.15	ppb	U
74-87-3	Chloromethane	C1118-3541	0.14	0.14	ppb	U
75-01-4	Vinyl Chloride	C1118-3541	0.11	0.11	ppb	U
74-83-9	Bromomethane	C1118-3541	0.15	0.15	ppb	U
75-00-3	Chloroethane	C1118-3541	0.28	0.28	ppb	U
75-69-4	Trichlorofluoromethane	C1118-3541	0.13	0.13	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	C1118-3541	0.19	0.19	ppb	U
75-35-4	1,1-Dichloroethene	C1118-3541	0.16	0.16	ppb	U
67-64-1	Acetone	C1118-3541	1.58	1.58	ppb	U
75-15-0	Carbon disulfide	C1118-3541	0.13	0.13	ppb	U
75-09-2	Methylene Chloride	C1118-3541	0.16	0.16	ppb	U
156-60-5	t-1,2-Dichloroethene	C1118-3541	0.15	**1.87**	ppb	
1634-04-4	Methyl t-butyl ether	C1118-3541	0.074	**3.49**	ppb	
75-34-3	1,1-Dichloroethane	C1118-3541	0.095	0.095	ppb	U
590-20-7	2,2-Dichloropropane	C1118-3541	0.33	0.33	ppb	U
156-59-2	c-1,2-Dichloroethene	A1119-3791	1.60	**180**	ppb	
78-93-3	2-Butanone	C1118-3541	0.46	0.46	ppb	U
74-97-5	Bromochloromethane	C1118-3541	0.14	0.14	ppb	U
67-66-3	Chloroform	C1118-3541	0.072	0.072	ppb	U
71-55-6	1,1,1-Trichloroethane	C1118-3541	0.16	**3.40**	ppb	
56-23-5	Carbon Tetrachloride	C1118-3541	0.12	0.12	ppb	U
563-58-6	1,1-Dichloropropene	C1118-3541	0.16	0.16	ppb	U
71-43-2	Benzene	C1118-3541	0.11	0.11	ppb	U
107-06-2	1,2-Dichloroethane	C1118-3541	0.12	0.12	ppb	U
79-01-6	Trichloroethene	C1118-3541	0.16	**123**	ppb	
78-87-5	1,2-Dichloropropane	C1118-3541	0.11	0.11	ppb	U
74-95-3	Dibromomethane	C1118-3541	0.17	0.17	ppb	U
75-27-4	Bromodichloromethane	C1118-3541	0.11	0.11	ppb	U
110-75-8	2-Chloroethylvinylether	C1118-3541	0.19	0.19	ppb	U
10061-01-5	c-1,3-Dichloropropene	C1118-3541	0.090	0.090	ppb	U
108-10-1	4-Methyl-2-pentanone	C1118-3541	0.81	0.81	ppb	U

Environmental Testing Laboratories, Inc.

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-1
Client Sample ID. RW1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/09/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	C1118-3541	0.092	0.092	ppb	U
10061-02-6	t-1,3-Dichloropropene	C1118-3541	0.13	0.13	ppb	U
79-00-5	1,1,2-Trichloroethane	C1118-3541	0.14	0.14	ppb	U
127-18-4	Tetrachloroethene	A1119-3791	3.80	**592**	ppb	
142-28-9	1,3-Dichloropropane	C1118-3541	0.099	0.099	ppb	U
591-78-6	2-Hexanone	C1118-3541	1.01	1.01	ppb	U
124-48-1	Dibromochloromethane	C1118-3541	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	C1118-3541	0.11	0.11	ppb	U
108-90-7	Chlorobenzene	C1118-3541	0.13	0.13	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	C1118-3541	0.11	0.11	ppb	U
100-41-4	Ethylbenzene	C1118-3541	0.11	0.11	ppb	U
108-38-3	m,p-xylene	C1118-3541	0.33	0.33	ppb	U
95-47-6	o-xylene	C1118-3541	0.13	0.13	ppb	U
100-42-5	Styrene	C1118-3541	0.97	0.97	ppb	U
75-25-2	Bromoform	C1118-3541	0.14	0.14	ppb	U
98-82-8	Isopropylbenzene	C1118-3541	0.097	0.097	ppb	U
108-86-1	Bromobenzene	C1118-3541	0.072	0.072	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	C1118-3541	0.088	0.088	ppb	U
103-65-1	n-Propylbenzene	C1118-3541	0.12	0.12	ppb	U
96-18-4	1,2,3-Trichloropropane	C1118-3541	0.28	0.28	ppb	U
622-96-8	p-Ethyltoluene	C1118-3541	0.12	0.12	ppb	U
108-67-8	1,3,5-Trimethylbenzene	C1118-3541	0.095	0.095	ppb	U
95-49-8	2-Chlorotoluene	C1118-3541	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	C1118-3541	0.14	0.14	ppb	U
98-06-6	tert-Butylbenzene	C1118-3541	0.15	0.15	ppb	U
95-63-6	1,2,4-Trimethylbenzene	C1118-3541	0.11	0.11	ppb	U
135-98-8	sec-Butylbenzene	C1118-3541	0.11	0.11	ppb	U
99-87-6	4-Isopropyltoluene	C1118-3541	0.12	0.12	ppb	U
541-73-1	1,3-Dichlorobenzene	C1118-3541	0.083	0.083	ppb	U
106-46-7	1,4-Dichlorobenzene	C1118-3541	0.068	0.068	ppb	U
95-50-1	1,2-Dichlorobenzene	C1118-3541	0 11	0.11	ppb	U
105-05-5	p-Diethylbenzene	C1118-3541	0.11	0.11	ppb	U

Environmental Testing Laboratories, Inc.

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10/14/2003

Volatiles - EPA 8260B

Sample: S1043-1

Client Sample ID: RW1

Matrix: Liquid

Type: Grab

Collected: 10/03/2003 12:00

Remarks: See Case Narrative

Analyzed Date: 10/09/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	C1118-3541	0.088	0.088	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	C1118-3541	0.12	0.12	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	C1118-3541	0.15	0.15	ppb	U
120-82-1	1,2,4-Trichlorobenzene	C1118-3541	0.13	0.13	ppb	U
87-68-3	Hexachlorobutadiene	C1118-3541	0.37	0.37	ppb	U
91-20-3	Naphthalene	C1118-3541	0.46	0.46	ppb	U
87-61-6	1,2,3-Trichlorobenzene	C1118-3541	0.12	0.12	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1119-3791	98.8 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1119-3791	100.0 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1119-3791	99.1 %	(89 - 122)	
460-00-4	4-BROMOFLUOROBENZENE	C1118-3541	105.0 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	C1118-3541	99.2 %	(74 - 111)	
2037-26-5	TOLUENE-D8	C1118-3541	101.0 %	(89 - 122)	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-2

Client Sample ID: RW2

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/10/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A1119-3792	0.29	0.29	ppb	U
75-45-6	Chlorodifluoromethane	A1119-3792	0.31	0.31	ppb	U
74-87-3	Chloromethane	A1119-3792	0.31	0.31	ppb	U
75-01-4	Vinyl Chloride	A1119-3792	0.28	0.28	ppb	U
74-83-9	Bromomethane	A1119-3792	0.45	0.45	ppb	U
75-00-3	Chloroethane	A1119-3792	0.44	0.44	ppb	U
75-69-4	Trichlorofluoromethane	A1119-3792	0.48	0.48	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	A1119-3792	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	A1119-3792	0.23	0.23	ppb	U
67-64-1	Acetone	A1119-3792	1.41	1.41	ppb	U
75-15-0	Carbon disulfide	A1119-3792	0.26	0.26	ppb	U
75-09-2	Methylene Chloride	A1119-3792	0.15	0.15	ppb	U
156-60-5	t-1,2-Dichloroethene	A1119-3792	0.22	0.22	ppb	U
1634-04-4	Methyl t-butyl ether	A1119-3792	0.053	**5.52**	ppb	
75-34-3	1,1-Dichloroethane	A1119-3792	0.22	**1.45**	ppb	
590-20-7	2,2-Dichloropropane	A1119-3792	0.37	0.37	ppb	U
156-59-2	c-1,2-Dichloroethene	A1119-3792	0.16	**26.5**	ppb	
78-93-3	2-Butanone	A1119-3792	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	A1119-3792	0.066	0.066	ppb	U
67-66-3	Chloroform	A1119-3792	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	A1119-3792	0.22	0.22	ppb	U
56-23-5	Carbon Tetrachloride	A1119-3792	0.32	0.32	ppb	U
563-58-6	1,1-Dichloropropene	A1119-3792	0.40	0.40	ppb	U
71-43-2	Benzene	A1119-3792	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	A1119-3792	0.17	0.17	ppb	U
79-01-6	Trichloroethene	A1119-3792	0.21	**6.64**	ppb	
78-87-5	1,2-Dichloropropane	A1119-3792	0.15	0.15	ppb	U
74-95-3	Dibromomethane	A1119-3792	0.072	0.072	ppb	U
75-27-4	Bromodichloromethane	A1119-3792	0.084	0.084	ppb	U
110-75-8	2-Chloroethylvinylether	A1119-3792	0.83	0.83	ppb	U
10061-01-5	c-1,3-Dichloropropene	A1119-3792	0.062	0.062	ppb	U
108-10-1	4-Methyl-2-pentanone	A1119-3792	1.44	1.44	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-2

Client Sample ID: RW2

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/10/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	A1119-3792	0.20	0.20	ppb	U
10061-02-6	t-1,3-Dichloropropene	A1119-3792	0.12	0.12	ppb	U
79-00-5	1,1,2-Trichloroethane	A1119-3792	0.15	0.15	ppb	U
127-18-4	Tetrachloroethene	A1119-3792	0.38	**2.57**	ppb	
142-28-9	1,3-Dichloropropane	A1119-3792	0.040	0.040	ppb	U
591-78-6	2-Hexanone	A1119-3792	1.44	1.44	ppb	U
124-48-1	Dibromochloromethane	A1119-3792	0.044	0.044	ppb	U
106-93-4	1,2-Dibromoethane	A1119-3792	0.097	0.097	ppb	U
108-90-7	Chlorobenzene	A1119-3792	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	A1119-3792	0.061	0.061	ppb	U
100-41-4	Ethylbenzene	A1119-3792	0.12	0.12	ppb	U
108-38-3	m,p-xylene	A1119-3792	0.24	0.24	ppb	U
95-47-6	o-xylene	A1119-3792	0.12	0.12	ppb	U
100-42-5	Styrene	A1119-3792	0.080	0.080	ppb	U
75-25-2	Bromoform	A1119-3792	0.073	0.073	ppb	U
98-82-8	Isopropylbenzene	A1119-3792	0.14	0.14	ppb	U
108-86-1	Bromobenzene	A1119-3792	0.11	0.11	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	A1119-3792	0.094	0.094	ppb	U
103-65-1	n-Propylbenzene	A1119-3792	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	A1119-3792	0.047	0.047	ppb	U
622-96-8	p-Ethyltoluene	A1119-3792	0.15	0.15	ppb	U
108-67-8	1,3,5-Trimethylbenzene	A1119-3792	0.17	0.17	ppb	U
95-49-8	2-Chlorotoluene	A1119-3792	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	A1119-3792	0.072	0.072	ppb	U
98-06-6	tert-Butylbenzene	A1119-3792	0.12	0.12	ppb	U
95-63-6	1,2,4-Trimethylbenzene	A1119-3792	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	A1119-3792	0.19	0.19	ppb	U
99-87-6	4-Isopropyltoluene	A1119-3792	0.16	0.16	ppb	U
541-73-1	1,3-Dichlorobenzene	A1119-3792	0.047	0.047	ppb	U
106-46-7	1,4-Dichlorobenzene	A1119-3792	0.17	0.17	ppb	U
95-50-1	1,2-Dichlorobenzene	A1119-3792	0.065	0.065	ppb	U
105-05-5	p-Diethylbenzene	A1119-3792	0.17	0.17	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-2

Client Sample ID: RW2

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/10/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	A1119-3792	0.26	0.26	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	A1119-3792	0.23	0.23	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	A1119-3792	0.25	0.25	ppb	U
120-82-1	1,2,4-Trichlorobenzene	A1119-3792	0.14	0.14	ppb	U
87-68-3	Hexachlorobutadiene	A1119-3792	0.19	0.19	ppb	U
91-20-3	Naphthalene	A1119-3792	0.40	0.40	ppb	U
87-61-6	1,2,3-Trichlorobenzene	A1119-3792	0.15	0.15	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1119-3792	99.3 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1119-3792	101.0 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1119-3792	101.0 %	(89 - 122)	

Environmental Testing Laboratories, Inc.

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-3
Client Sample ID: Combined Influent
Matrix: Liquid
Type: Grab
Collected: 10/03/2003 12:00
Remarks: See Case Narrative
Analyzed Date: 10/09/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C1118-3543	0.17	0.17	ppb	U
75-45-6	Chlorodifluoromethane	C1118-3543	0.15	0.15	ppb	U
74-87-3	Chloromethane	C1118-3543	0.14	0.14	ppb	U
75-01-4	Vinyl Chloride	C1118-3543	0.11	0.11	ppb	U
74-83-9	Bromomethane	C1118-3543	0.15	0.15	ppb	U
75-00-3	Chloroethane	C1118-3543	0.28	0.28	ppb	U
75-69-4	Trichlorofluoromethane	C1118-3543	0.13	0.13	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	C1118-3543	0.19	0.19	ppb	U
75-35-4	1,1-Dichloroethene	C1118-3543	0.16	0.16	ppb	U
67-64-1	Acetone	C1118-3543	1.58	1.58	ppb	U
75-15-0	Carbon disulfide	C1118-3543	0.13	0.13	ppb	U
75-09-2	Methylene Chloride	C1118-3543	0.16	0.16	ppb	U
156-60-5	t-1,2-Dichloroethene	C1118-3543	0.15	**1.03**	ppb	
1634-04-4	Methyl t-butyl ether	C1118-3543	0.074	**4.50**	ppb	
75-34-3	1,1-Dichloroethane	C1118-3543	0.095	**0.88**	ppb	
590-20-7	2,2-Dichloropropane	C1118-3543	0.33	0.33	ppb	U
156-59-2	c-1,2-Dichloroethene	C1118-3543	0.17	**99.6**	ppb	
78-93-3	2-Butanone	C1118-3543	0.46	0.46	ppb	U
74-97-5	Bromochloromethane	C1118-3543	0.14	0.14	ppb	U
67-66-3	Chloroform	C1118-3543	0.072	0.072	ppb	U
71-55-6	1,1,1-Trichloroethane	C1118-3543	0.16	**2.10**	ppb	
56-23-5	Carbon Tetrachloride	C1118-3543	0.12	0.12	ppb	U
563-58-6	1,1-Dichloropropene	C1118-3543	0.16	0.16	ppb	U
71-43-2	Benzene	C1118-3543	0.11	0.11	ppb	U
107-06-2	1,2-Dichloroethane	C1118-3543	0.12	0.12	ppb	U
79-01-6	Trichloroethene	C1118-3543	0.16	**65.4**	ppb	
78-87-5	1,2-Dichloropropane	C1118-3543	0.11	0.11	ppb	U
74-95-3	Dibromomethane	C1118-3543	0.17	0.17	ppb	U
75-27-4	Bromodichloromethane	C1118-3543	0.11	0.11	ppb	U
110-75-8	2-Chloroethylvinylether	C1118-3543	0.19	0.19	ppb	U
10061-01-5	c-1,3-Dichloropropene	C1118-3543	0.090	0.090	ppb	U
108-10-1	4-Methyl-2-pentanone	C1118-3543	0.81	0.81	ppb	U

Environmental Testing Laboratories, Inc.

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-3
Client Sample ID: Combined Influent
Matrix: Liquid
Type: Grab
Collected: 10/03/2003 12:00
Remarks: See Case Narrative
Analyzed Date: 10/09/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	C1118-3543	0.092	0.092	ppb	U
10061-02-6	t-1,3-Dichloropropene	C1118-3543	0.13	0.13	ppb	U
79-00-5	1,1,2-Trichloroethane	C1118-3543	0.14	0.14	ppb	U
127-18-4	Tetrachloroethene	A1119-3793	1.90	**270**	ppb	
142-28-9	1,3-Dichloropropane	C1118-3543	0.099	0.099	ppb	U
591-78-6	2-Hexanone	C1118-3543	1.01	1.01	ppb	U
124-48-1	Dibromochloromethane	C1118-3543	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	C1118-3543	0.11	0.11	ppb	U
108-90-7	Chlorobenzene	C1118-3543	0.13	0.13	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	C1118-3543	0.11	0.11	ppb	U
100-41-4	Ethylbenzene	C1118-3543	0.11	0.11	ppb	U
108-38-3	m,p-xylene	C1118-3543	0.33	0.33	ppb	U
95-47-6	o-xylene	C1118-3543	0.13	0.13	ppb	U
100-42-5	Styrene	C1118-3543	0.97	0.97	ppb	U
75-25-2	Bromoform	C1118-3543	0.14	0.14	ppb	U
98-82-8	Isopropylbenzene	C1118-3543	0.097	0.097	ppb	U
108-86-1	Bromobenzene	C1118-3543	0.072	0.072	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	C1118-3543	0.088	0.088	ppb	U
103-65-1	n-Propylbenzene	C1118-3543	0.12	0.12	ppb	U
96-18-4	1,2,3-Trichloropropane	C1118-3543	0.28	0.28	ppb	U
622-96-8	p-Ethyltoluene	C1118-3543	0.12	0.12	ppb	U
108-67-8	1,3,5-Trimethylbenzene	C1118-3543	0.095	0.095	ppb	U
95-49-8	2-Chlorotoluene	C1118-3543	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	C1118-3543	0.14	0.14	ppb	U
98-06-6	tert-Butylbenzene	C1118-3543	0.15	0.15	ppb	U
95-63-6	1,2,4-Trimethylbenzene	C1118-3543	0.11	0.11	ppb	U
135-98-8	sec-Butylbenzene	C1118-3543	0.11	0.11	ppb	U
99-87-6	4-Isopropyltoluene	C1118-3543	0.12	0.12	ppb	U
541-73-1	1,3-Dichlorobenzene	C1118-3543	0.083	0.083	ppb	U
106-46-7	1,4-Dichlorobenzene	C1118-3543	0.068	0.068	ppb	U
95-50-1	1,2-Dichlorobenzene	C1118-3543	0.11	0.11	ppb	U
105-05-5	p-Diethylbenzene	C1118-3543	0.11	0.11	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-3

Client Sample ID: Combined Influent

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/09/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	C1118-3543	0.088	0.088	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	C1118-3543	0.12	0.12	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	C1118-3543	0.15	0.15	ppb	U
120-82-1	1,2,4-Trichlorobenzene	C1118-3543	0.13	0.13	ppb	U
87-68-3	Hexachlorobutadiene	C1118-3543	0.37	0.37	ppb	U
91-20-3	Naphthalene	C1118-3543	0.46	0.46	ppb	U
87-61-6	1,2,3-Trichlorobenzene	C1118-3543	0.12	0.12	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1119-3793	99.1 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1119-3793	100.0 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1119-3793	100.0 %	(89 - 122)	
460-00-4	4-BROMOFLUOROBENZENE	C1118-3543	103.0 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	C1118-3543	99.3 %	(74 - 111)	
2037-26-5	TOLUENE-D8	C1118-3543	104.0 %	(89 - 122)	

Environmental Testing Laboratories, Inc.

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-4
Client Sample ID: Mid Fluent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/10/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A1119-3794	0.29	0.29	ppb	U
75-45-6	Chlorodifluoromethane	A1119-3794	0.31	0.31	ppb	U
74-87-3	Chloromethane	A1119-3794	0.31	0.31	ppb	U
75-01-4	Vinyl Chloride	A1119-3794	0.28	0.28	ppb	U
74-83-9	Bromomethane	A1119-3794	0.45	0.45	ppb	U
75-00-3	Chloroethane	A1119-3794	0.44	0.44	ppb	U
75-69-4	Trichlorofluoromethane	A1119-3794	0.48	0.48	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	A1119-3794	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	A1119-3794	0.23	0.23	ppb	U
67-64-1	Acetone	A1119-3794	1.41	1.41	ppb	U
75-15-0	Carbon disulfide	A1119-3794	0.26	0.26	ppb	U
75-09-2	Methylene Chloride	A1119-3794	0.15	0.15	ppb	U
156-60-5	t-1.2-Dichloroethene	A1119-3794	0.22	0.22	ppb	U
1634-04-4	Methyl t-butyl ether	A1119-3794	0.053	**3.19**	ppb	
75-34-3	1,1-Dichloroethane	A1119-3794	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	A1119-3794	0.37	0.37	ppb	U
156-59-2	c-1,2-Dichloroethene	A1119-3794	0.16	**4.27**	ppb	
78-93-3	2-Butanone	A1119-3794	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	A1119-3794	0.066	0.066	ppb	U
67-66-3	Chloroform	A1119-3794	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	A1119-3794	0.22	0.22	ppb	U
56-23-5	Carbon Tetrachloride	A1119-3794	0.32	0.32	ppb	U
563-58-6	1,1-Dichloropropene	A1119-3794	0.40	0.40	ppb	U
71-43-2	Benzene	A1119-3794	0.21	0.21	ppb	U
107-06-2	1,2-Dichloroethane	A1119-3794	0.17	0.17	ppb	U
79-01-6	Trichloroethene	A1119-3794	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	A1119-3794	0.15	0.15	ppb	U
74-95-3	Dibromomethane	A1119-3794	0.072	0.072	ppb	U
75-27-4	Bromodichloromethane	A1119-3794	0.084	0.084	ppb	U
110-75-8	2-Chloroethylvinylether	A1119-3794	0.83	0.83	ppb	U
10061-01-5	c-1,3-Dichloropropene	A1119-3794	0.062	0.062	ppb	U
108-10-1	4-Methyl-2-pentanone	A1119-3794	1.44	1.44	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

10/14/2003

Volatiles - EPA 8260B

Sample: S1043-4

Client Sample ID: Mid Fluent

Matrix: Liquid

Type: Grab

Collected: 10/03/2003 12:00

Remarks: See Case Narrative

Analyzed Date: 10/10/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	A1119-3794	0.20	0.20	ppb	U
10061-02-6	t-1,3-Dichloropropene	A1119-3794	0.12	0.12	ppb	U
79-00-5	1,1,2-Trichloroethane	A1119-3794	0.15	0.15	ppb	U
127-18-4	Tetrachloroethene	A1119-3794	0.38	**2.81**	ppb	
142-28-9	1,3-Dichloropropane	A1119-3794	0.040	0.040	ppb	U
591-78-6	2-Hexanone	A1119-3794	1.44	1.44	ppb	U
124-48-1	Dibromochloromethane	A1119-3794	0.044	0.044	ppb	U
106-93-4	1,2-Dibromoethane	A1119-3794	0.097	0.097	ppb	U
108-90-7	Chlorobenzene	A1119-3794	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	A1119-3794	0.061	0.061	ppb	U
100-41-4	Ethylbenzene	A1119-3794	0.12	0.12	ppb	U
108-38-3	m,p-xylene	A1119-3794	0.24	0.24	ppb	U
95-47-6	o-xylene	A1119-3794	0.12	0.12	ppb	U
100-42-5	Styrene	A1119-3794	0.080	0.080	ppb	U
75-25-2	Bromoform	A1119-3794	0.073	0.073	ppb	U
98-82-8	Isopropylbenzene	A1119-3794	0.14	0.14	ppb	U
108-86-1	Bromobenzene	A1119-3794	0.11	0.11	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	A1119-3794	0.094	0.094	ppb	U
103-65-1	n-Propylbenzene	A1119-3794	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	A1119-3794	0.047	0.047	ppb	U
622-96-8	p-Ethyltoluene	A1119-3794	0.15	0.15	ppb	U
108-67-8	1,3,5-Trimethylbenzene	A1119-3794	0.17	0.17	ppb	U
95-49-8	2-Chlorotoluene	A1119-3794	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	A1119-3794	0.072	0.072	ppb	U
98-06-6	tert-Butylbenzene	A1119-3794	0.12	0.12	ppb	U
95-63-6	1,2,4-Trimethylbenzene	A1119-3794	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	A1119-3794	0.19	0.19	ppb	U
99-87-6	4-Isopropyltoluene	A1119-3794	0.16	0.16	ppb	U
541-73-1	1,3-Dichlorobenzene	A1119-3794	0.047	0.047	ppb	U
106-46-7	1,4-Dichlorobenzene	A1119-3794	0.17	0.17	ppb	U
95-50-1	1,2-Dichlorobenzene	A1119-3794	0.065	0.065	ppb	U
105-05-5	p-Diethylbenzene	A1119-3794	0.17	0.17	ppb	U

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10/14/2003

Volatiles - EPA 8260B

Sample: S1043-4
Client Sample ID: Mid Fluent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/10/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	A1119-3794	0.26	0.26	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	A1119-3794	0.23	0.23	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	A1119-3794	0.25	0.25	ppb	U
120-82-1	1,2,4-Trichlorobenzene	A1119-3794	0.14	0.14	ppb	U
87-68-3	Hexachlorobutadiene	A1119-3794	0.19	0.19	ppb	U
91-20-3	Naphthalene	A1119-3794	0.40	0.40	ppb	U
87-61-6	1,2,3-Trichlorobenzene	A1119-3794	0.15	0.15	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A1119-3794	99.0 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	A1119-3794	101.0 %	(74 - 111)	
2037-26-5	TOLUENE-D8	A1119-3794	101.0 %	(89 - 122)	

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10/14/2003

Volatiles - EPA 8260B

Sample: S1043-5
Client Sample ID: Effluent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/09/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C1118-3545	0.17	0.17	ppb	U
75-45-6	Chlorodifluoromethane	C1118-3545	0.15	0.15	ppb	U
74-87-3	Chloromethane	C1118-3545	0.14	0.14	ppb	U
75-01-4	Vinyl Chloride	C1118-3545	0.11	0.11	ppb	U
74-83-9	Bromomethane	C1118-3545	0.15	0.15	ppb	U
75-00-3	Chloroethane	C1118-3545	0.28	0.28	ppb	U
75-69-4	Trichlorofluoromethane	C1118-3545	0.13	0.13	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	C1118-3545	0.19	0.19	ppb	U
75-35-4	1,1-Dichloroethene	C1118-3545	0.16	0.16	ppb	U
67-64-1	Acetone	C1118-3545	1.58	1.58	ppb	U
75-15-0	Carbon disulfide	C1118-3545	0.13	0.13	ppb	U
75-09-2	Methylene Chloride	C1118-3545	0.16	0.16	ppb	U
156-60-5	t-1,2-Dichloroethene	C1118-3545	0.15	0.15	ppb	U
1634-04-4	Methyl t-butyl ether	C1118-3545	0.074	0.074	ppb	U
75-34-3	1,1-Dichloroethane	C1118-3545	0.095	0.095	ppb	U
590-20-7	2,2-Dichloropropane	C1118-3545	0.33	0.33	ppb	U
156-59-2	c-1,2-Dichloroethene	C1118-3545	0.17	0.17	ppb	U
78-93-3	2-Butanone	C1118-3545	0.46	0.46	ppb	U
74-97-5	Bromochloromethane	C1118-3545	0.14	0.14	ppb	U
67-66-3	Chloroform	C1118-3545	0.072	0.072	ppb	U
71-55-6	1,1,1-Trichloroethane	C1118-3545	0.16	0.16	ppb	U
56-23-5	Carbon Tetrachloride	C1118-3545	0.12	0.12	ppb	U
563-58-6	1,1-Dichloropropene	C1118-3545	0.16	0.16	ppb	U
71-43-2	Benzene	C1118-3545	0.11	0.11	ppb	U
107-06-2	1,2-Dichloroethane	C1118-3545	0.12	0.12	ppb	U
79-01-6	Trichloroethene	C1118-3545	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	C1118-3545	0.11	0.11	ppb	U
74-95-3	Dibromomethane	C1118-3545	0.17	0.17	ppb	U
75-27-4	Bromodichloromethane	C1118-3545	0.11	0.11	ppb	U
110-75-8	2-Chloroethylvinylether	C1118-3545	0.19	0.19	ppb	U
10061-01-5	c-1,3-Dichloropropene	C1118-3545	0.090	0.090	ppb	U
108-10-1	4-Methyl-2-pentanone	C1118-3545	0.81	0.81	ppb	U

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10/14/2003

Volatiles - EPA 8260B

Sample: S1043-5
Client Sample ID: Effluent
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/09/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
108-88-3	Toluene	C1118-3545	0.092	0.092	ppb	U
10061-02-6	t-1,3-Dichloropropene	C1118-3545	0.13	0.13	ppb	U
79-00-5	1,1,2-Trichloroethane	C1118-3545	0.14	0.14	ppb	U
127-18-4	Tetrachloroethene	C1118-3545	0.39	0.39	ppb	U
142-28-9	1,3-Dichloropropane	C1118-3545	0.099	0.099	ppb	U
591-78-6	2-Hexanone	C1118-3545	1.01	1.01	ppb	U
124-48-1	Dibromochloromethane	C1118-3545	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	C1118-3545	0.11	0.11	ppb	U
108-90-7	Chlorobenzene	C1118-3545	0.13	0.13	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	C1118-3545	0.11	0.11	ppb	U
100-41-4	Ethylbenzene	C1118-3545	0.11	0.11	ppb	U
108-38-3	m,p-xylene	C1118-3545	0.33	0.33	ppb	U
95-47-6	o-xylene	C1118-3545	0.13	0.13	ppb	U
100-42-5	Styrene	C1118-3545	0.97	0.97	ppb	U
75-25-2	Bromoform	C1118-3545	0.14	0.14	ppb	U
98-82-8	Isopropylbenzene	C1118-3545	0.097	0.097	ppb	U
108-86-1	Bromobenzene	C1118-3545	0.072	0.072	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	C1118-3545	0.088	0.088	ppb	U
103-65-1	n-Propylbenzene	C1118-3545	0.12	0.12	ppb	U
96-18-4	1,2,3-Trichloropropane	C1118-3545	0.28	0.28	ppb	U
622-96-8	p-Ethyltoluene	C1118-3545	0.12	0.12	ppb	U
108-67-8	1,3,5-Trimethylbenzene	C1118-3545	0.095	0.095	ppb	U
95-49-8	2-Chlorotoluene	C1118-3545	0.15	0.15	ppb	U
106-43-4	4-Chlorotoluene	C1118-3545	0.14	0.14	ppb	U
98-06-6	tert-Butylbenzene	C1118-3545	0.15	0.15	ppb	U
95-63-6	1,2,4-Trimethylbenzene	C1118-3545	0.11	0.11	ppb	U
135-98-8	sec-Butylbenzene	C1118-3545	0.11	0.11	ppb	U
99-87-6	4-Isopropyltoluene	C1118-3545	0.12	0.12	ppb	U
541-73-1	1,3-Dichlorobenzene	C1118-3545	0.083	0.083	ppb	U
106-46-7	1,4-Dichlorobenzene	C1118-3545	0.068	0.068	ppb	U
95-50-1	1,2-Dichlorobenzene	C1118-3545	0.11	0.11	ppb	U
105-05-5	p-Diethylbenzene	C1118-3545	0.11	0.11	ppb	U

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10/14/2003

Volatiles - EPA 8260B

Sample: S1043-5

Client Sample ID: Effluent

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/09/2003

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
104-51-8	n-Butylbenzene	C1118-3545	0.088	0.088	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	C1118-3545	0.12	0.12	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	C1118-3545	0.15	0.15	ppb	U
120-82-1	1,2,4-Trichlorobenzene	C1118-3545	0.13	0.13	ppb	U
87-68-3	Hexachlorobutadiene	C1118-3545	0.37	0.37	ppb	U
91-20-3	Naphthalene	C1118-3545	0.46	0.46	ppb	U
87-61-6	1,2,3-Trichlorobenzene	C1118-3545	0.12	0.12	ppb	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C1118-3545	104.0 %	(93 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	C1118-3545	99.2 %	(74 - 111)	
2037-26-5	TOLUENE-D8	C1118-3545	103.0 %	(89 - 122)	

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10/14/2003

Mercury by Method SW846 7470/7471-EPA 245

Sample: S1043-6

Client Sample ID: Effluent

Collected: 10/03/2003 12:00

Matrix: Liquid

Type. Grab

Remarks:

Analyzed Date: 10/08/2003

Preparation Date(s) : 10/08/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000020	**0.000047**	ppm	

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10/14/2003

TAL Metals by Method SW846 6010

Sample: S1043-6

Client Sample ID: Effluent

Collected: 10/03/2003 12:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/13/2003

Preparation Date(s) : 10/08/2003 10/07/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	**0.065**	ppm	
7440-36-0	Antimony	0.0020	**0.0078**	ppm	
7440-38-2	Arsenic	0.0034	**0.017**	ppm	
7440-39-3	Barium	0.00040	**0.034**	ppm	
7440-41-7	Beryllium	0.00020	**0.00080**	ppm	
7440-43-9	Cadmium	0.00030	0.00030	ppm	U
7440-70-2	Calcium	0.026	**83.5**	ppm	
7440-47-3	Chromium	0.0016	**0.0037**	ppm	
7440-48-4	Cobalt	0.00040	**0.00050**	ppm	
7440-50-8	Copper	0.0029	**0.042**	ppm	
7439-89-6	Iron	0.018	**0.40**	ppm	
7439-92-1	Lead	0.0017	**0.023**	ppm	
7439-95-4	Magnesium	0.027	**104**	ppm	
7439-96-5	Manganese	0.00080	**2.22**	ppm	
7440-02-0	Nickel	0.00050	**0.0021**	ppm	
7440-09-7	Potassium	0.52	**43.0**	ppm	
7782-49-2	Selenium	0.043	**0.32**	ppm	
7440-22-4	Silver	0.010	**0.092**	ppm	
7440-23-5	Sodium	0.22	**876**	ppm	
7440-28-0	Thallium	0.0020	**0.032**	ppm	
7440-62-2	Vanadium	0.00050	0.00050	ppm	U
7440-66-6	Zinc	0.0044	**0.18**	ppm	

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10/14/2003

Alkalinity - EPA 310.1

Sample: S1043-6

Client Sample ID: Effluent

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 10/07/2003

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	**24.0**	ppm	

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10/14/2003

Chemical Oxygen Demand (COD) - EPA 410.4

Sample: S1043-6
Client Sample ID: Effluent
Matrix: Liquid
Remarks:
Analyzed Date: 10/07/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	459	ppm	

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10/14/2003

Total Suspended Solids - EPA 160.2/SM 2540D

Sample: S1043-6

Client Sample ID: Effluent

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 10/06/2003

Analytical Results

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

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10/14/2003

Total Dissolved Solids - 2540C

Sample: S1043-6

Client Sample ID: Effluent

Matrix: Liquid

Remarks:

Analyzed Date: 10/07/2003

Type: Grab

Collected: 10/03/2003 12:00

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	Total Dissolved Solids	19.8	3110	mg/l	

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10/14/2003

Residual Chlorine - Method 4500

Sample: S1043-6

Client Sample ID: Effluent

Collected: 10/03/2003 12:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 10/05/2003

Analytical Results

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

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10/14/2003

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 indicates a system monitoring 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)

x - Outside Expected Range

OTHER

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

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10/14/2003

Case Narrative

8260:

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 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.

Metals:

Se- Calibration blanks were greater than the acceptable range. Final CCV was below the acceptable range of 90-110%. Value of final CCV was 88.2%.
All other QC was within acceptable range.

K - ICV and CCV's were greater than the acceptable range. All other QC was within acceptable ranges.

ETL

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CHAIN OF CUSTODY DOCUMENT

S 1043

Project Name: Active | Project Manager: Mark Soliman | Sampler (Signature): Charles Ferrito (Print): Charles Ferrito

Project Address: 67 Montauk Hwy Lindenhurst

Client BWE J/N: 02370 | ☐ 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	10/3	1200	G	L	RW 1	2			X												
2	"	"	"	"	RW 2	2			X												
3	"	"	"	"	Combined Influent	2			X												
4	"	"	"	"	Mid Fluent	2			X												
5	"	"	"	"	Effluent	2			X												
6	"	"	"	"	Effluent	3						X			X	X	X	X	X		
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
Keith Cohen	10/3/03 2:50	BWE Keith Cohen			
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received for Lab by (Signature):	Date 10/3/03 / Time 1500	Printed Name Antonio
Comments & Special Instructions		QA/QC Type:	Number & Type of Containers: 10-VOAs 1-500 2-250	Preservatives: As, Soj HNO3 HCl	Temp: 4° 10/3/03

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