

October 29, 2009

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Mr. Douglas MacNeal
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Technical Support, 11th Floor
625 Broadway
Albany, New York 12233

**RE: Quarterly Groundwater Monitoring Report- Third Quarter 2009
River Place I & II
West 42nd Street, New York, New York
BCP Site No. C231024, C231012
Langan Project No.: 170040901**

NOV 4 2 2009

Dear Mr. MacNeal:

Langan Engineering & Environmental Services, PC (Langan) is pleased to present this letter report summarizing groundwater monitoring well sampling activities for River Place I & II located between West 41st and West 42nd Streets and 11th and 12th Avenues in New York, New York (the "Site"). A Site Location Map is attached as Figure 1. Groundwater monitoring was conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved July 2006 Site Management Plan (SMP).

Background

Two groundwater monitoring wells (MW-N and MW-S) were installed in the future park area between River Place I and River Place II, on February 28 and March 7, 2009 by Aquifer Drilling & Testing, Inc. (ADT) of New Hyde Park, New York. On March 16, 2009, Langan personnel completed the first round of quarterly sampling and found MW-N to have 8.75 feet of free product. Analysis of groundwater samples from both wells found volatile organic compound (VOC) and metal exceedances of the New York State Department of Environmental Conservation (NYSDEC) Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standard (AWQS). MW-N also contained semivolatile organic compound (SVOC) of the TOGS standard. Well installation and water sample observations and findings are addressed in detail in the First Quarter 2009 Groundwater Monitoring Report dated May 7, 2009. The locations of the wells are shown on Figure 2. Soil boring and well construction logs are included as Attachment A.

Groundwater Monitoring Well Sampling

On September 18, 2009, Langan sampled well MW-N. Well MW-S was not sampled because it was destroyed during construction activities at the Site. MW-S will be reinstalled once construction activities in the immediate area of the well are complete. During sampling, Langan visually inspected the MW-N for evidence of tampering or damage, and measured the depth to groundwater. Synaptic water level and product thickness was measured using a Solinst oil/water interface probe. Water level measurements were repeated at least once to verify the accuracy of the initial measurement. All measurements were recorded on Langan field sampling forms. Copies of the completed field forms are included in Attachment B of this report.

Prior to collecting groundwater samples, MW-N was purged using low-flow purge and sample techniques. The well was purged using clean, dedicated, polyethylene tubing attached to a Waterra positive displacement pump. During purging, groundwater was monitored for dissolved oxygen, pH, temperature, turbidity, and specific conductance. These readings are included on the sampling forms in Attachment B. Prior to sampling, the wells were allowed to recover to approximately 80% or more of the static water level.

MW-N was purged until physical and chemical parameters stabilized (approximately 12 gallons purged). After purging, sample MW-N-9-18-09 was collected using a Waterra pump and dedicated tubing.

The groundwater sample, MW-N-9-18-09, was collected into laboratory-prepared containers, tightly sealed, uniquely labeled, and then stored on ice for transport to Alpha Analytical (Alpha) in Westborough, Massachusetts, under standard chain-of-custody procedures. One trip blank was included for quality assurance/quality control (QA/QC) purposes. The groundwater sample was analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, Target Analyte List (TAL) metals by EPA SW 6000/7000, cyanide (total) by EPA SW 9012, and cyanide (available) by EPA 9014. The trip blank was analyzed for VOCs by EPA Method 8260.

Findings

Observations

Approximately 6 inches of free product was measured in MW-N. The MW-N groundwater sample was collected from a layer of groundwater located above the product and exhibited a sweet odor and contained a slight sheen. During the last sampling event (July 2009), 5 inches of free product was observed in MW-N and no free product, sheen, or odor was observed in MW-S.

Groundwater Analytical Results

Laboratory analytical data were compared to the NYSDEC TOGS 1.1.1 AWQS Class GA Standards. Compounds exceeding the TOGS criteria are summarized in the table below.

<u>VOCs</u>¹	
MW-N	
• benzene	• ethylbenzene
• p/m-xylene	• naphthalene
• o-xylene	• toluene
<u>SVOCs</u>¹	
MW-N	
• naphthalene	• acenaphthene
• phenol	• phenanthrene
• Bis(2-ethylhexyl)phthalate	• 2,4-dimethylphenol
<u>Inorganics</u>	
MW-N	
• iron	• magnesium
• manganese	• cyanide
• sodium	

1) Due to the level of contamination in the samples, method detection limits were elevated above the TOGS standards for several of the VOCs and SVOCs.

Conclusions

A comparison with the first quarterly monitoring event (March 2009) and last quarterly sampling event (July 2009) found that the same metals and volatile compounds exceeded NYSDEC TOGS AWQS in MW-N. Fluorene was detected in the first two quarterly monitoring events but not during this event. Benzo(a)pyrene, Benzo(b)fluoranthene, and chrysene are no longer detected above the TOGS Standards in MW-N. However, Bis(2-Ethylhexyl)phthalate is now detected in MW-N at a concentrations of 46 ug/l, which exceeds the TOGS standard of 5 ug/l.

Analytical detections for both the first, second, and third quarter rounds of sampling are presented in Tables 1 through 3 and the laboratory analytical report is included as Attachment C.

Monitoring well MW-S will be reinstalled once construction activities in the immediate area are complete.

Please call if you have any questions.

Sincerely,
Langan Engineering & Environmental Services, P.C.



Joel B. Landes, P.E.
Senior Associate

Enclosure(s):

Figure 1	Site Location Map
Figure 2	Well Location Map
Table 1	VOC Detections in Groundwater Samples
Table 2	SVOC Detections in Groundwater Samples
Table 3	Total Metals and Cyanide in Groundwater Sample
Attachment A	Soil Boring and Well Construction Logs
Attachment B	Groundwater Sampling Forms
Attachment C	Laboratory Analytical Reports, Chain-of-Custody and Certifications

cc:

Richard Rienzo- Con Edison
William R. Dacunto- River Place II LLC
Jason Hayes - Langan
Joe Good - Langan

FIGURES



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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

NJ Certificate of Authorization No: 24GA27996400

Project

SITE LOCATION MAP

RIVER PLACE I AND II

NEW YORK

NEW YORK

Project No.
170040901

Date
04/07/09

Scale
NTS

Dwg. No.
1

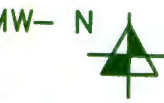
45 FT -

NOTES:

1. BASEMAP TAKEN FROM MANHATTAN-SURVEYING ARCHITECTURAL SURVEY DATED JUNE 3, 2006 AND PARK LAYOUT AND MATERIALS PLAN BY COSTAS KONDYLIS AND PARTNERS LLP ARCHITECTS DATED OCTOBER 1, 2008.

2. MONITORING WELL LOCATIONS ARE APPROXIMATE.

LEGEND



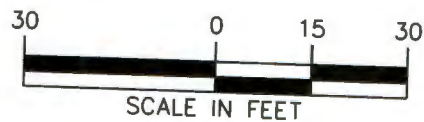
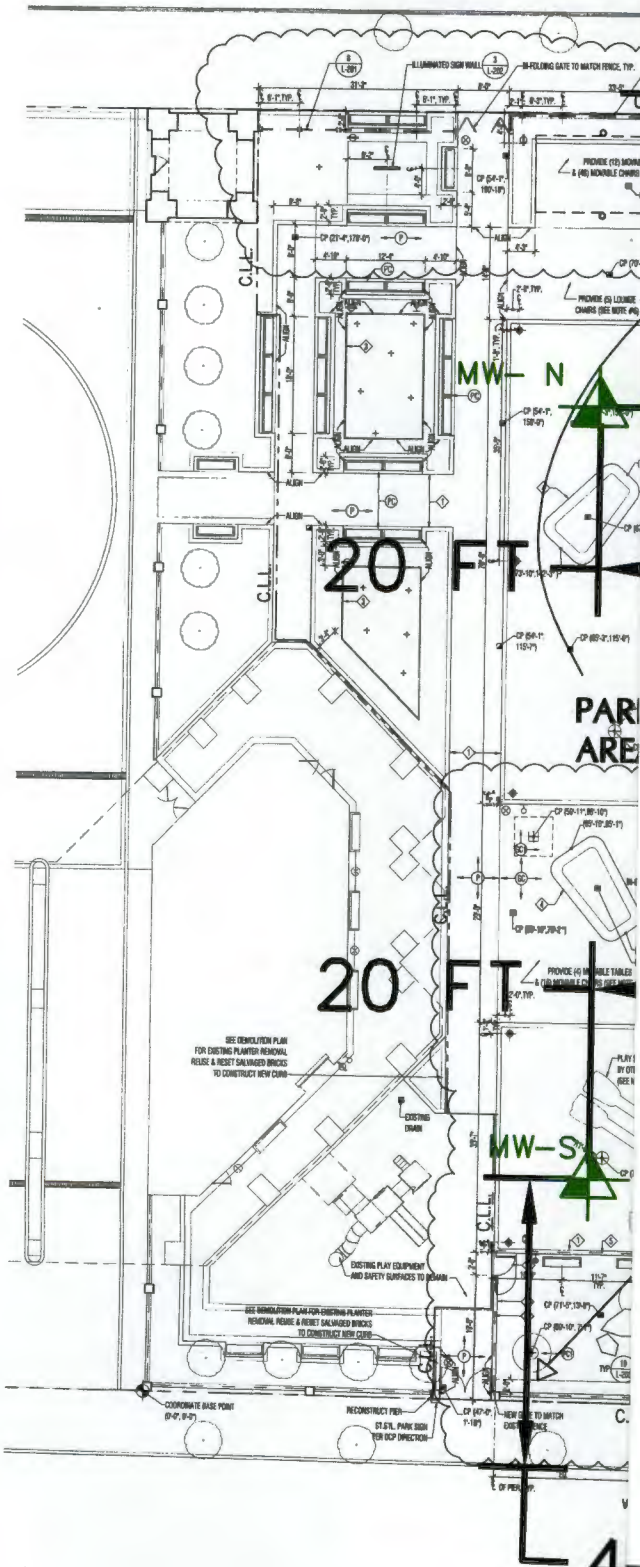
APPROXIMATE MONITORING WELL LOCATION IN ACCORDANCE WITH SITE MANAGEMENT PLAN



SHEET PILE WALL



PROPERTY BOUNDARY (RIVER PLACE II)



4 Project

MONITORING WELL LOCATION MAP

RIVER PLACE I & II

NEW YORK

Project No.

Date

NEW YORK

TABLES

LOCATION SAMPLING DATE LAB SAMPLE ID Units	NYSDEC TOGS Recommended Groundwater Criteria ug/l		Third Quarter (September 2009)		
			BLANK 7/2009 08040-03 ug/l	MW-N-9-18-09 9/18/2009 L0913185-01 ug/l	TRIP BLANK 6/17/2009 L0913185-02 ug/l
Volatile Organics by GC/MS - Westborough Lab					
Benzene	1		U	15000 D ⁵⁰⁰	2.5 U
Toluene	5		U	4100 D ⁵⁰⁰	2.5 U
Ethylbenzene	5		U	1800 D ⁵⁰⁰	2.5 U
p/m-Xylene	5		U	2900 D ⁵⁰⁰	0.5 U
o-Xylene	5		U	1200 D ⁵⁰⁰	2 U
Isopropylbenzene	5		U	250 U, D ⁵⁰⁰	1 U
Naphthalene	10		U	19000 D ⁵⁰⁰	1 U
n-Propylbenzene	5		U	250 U, D ⁵⁰⁰	2.5 U
1,2,4-Trimethylbenzene	5		U	1200 U, D ⁵⁰⁰	0.5 U

Notes:

- Groundwater samples were compared to New York State Depa Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS)
- NYSDEC TOGS exceedances are highlighted and BOLD
- Method Detection Limits (MDLs) are elevated above TOGS crit
- ug/L: Micrograms per Liter

Qualifiers:

U- Concentration is less than value shown, this is the MDL
D^x- Dillution factor of X

LOCATION	09)		Thrid Quarter (September 2009)
SAMPLING DATE	NYSDEC TOGS	S-6-17-09	MW-N-9-18-09
LAB SAMPLE ID	Recommended	17/2009	9/18/2009
Units	Groundwater Criteria	08040-02	L0913185-01
	ug/l	ug/l	ug/l
Semi-Volatile Organics - Westborough Lab			
Acenaphthene	20	U	99 D ⁵⁰
Fluoranthene	50	U	14 D ⁵⁰
Naphthalene	10	2	9400 D ¹⁰⁰⁰
Bis(2-Ethylhexyl)phthalate	5	U	46 D ⁵
Benzo(a)anthracene	-	U	9.6 U, D ⁵⁰
Benzo(a)pyrene	0	U	9.6 U, D ⁵⁰
Benzo(b)fluoranthene	0.002	U	9.6 U, D ⁵⁰
Chrysene	0.002	U	9.6 U, D ⁵⁰
Acenaphthylene	-	U	42 D ⁵⁰
Anthracene	50	U	11 D ⁵⁰
Benzo(ghi)perylene	-	U	9.6 U, D ⁵⁰
Fluorene	50	U	47 D ⁵⁰
Phenanthrene	50	U	62 D ⁵⁰
Dibenzo(a,h)anthracene	-	U	9.6 U, D ⁵⁰
Pyrene	50	U	10 D ⁵⁰
Biphenyl	-	U	36 D ⁵
Dibenzofuran	-	U	56 D ⁵
2-Methylnaphthalene	-	U	340 D ⁵⁰
2,4-Dimethylphenol	50	U	1200 D ¹⁰⁰
Phenol	1	U	87 D ⁵
2-Methylphenol	-	U	290 D ⁵
3-Methylphenol/4-Methylphenol	-	U	110 D ⁵
Carbazole	-	U	270 D ⁵

Notes:

- Groundwater samples were compared to New York State Department of Environmental Conservation Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Levels
- NYSDEC TOGS exceedances are highlighted and BOLD
- Method Detection Limits (MDLs) are elevated above TOGS criteria levels of contamination
- A select subset of VOCs were run twice (once by Gas Chromatography/Mass Spectrometry (GC/MS) and once by Selected Ion Monitoring (SIM) analysis) per standard laboratory protocol. SIM results are reported.
- ug/L: Micrograms per Liter

Qualifiers:

- U- Concentration is less than value shown, this is the MDL
- D^x- Dilution factor of X

LOCATION	NYSDEC TOGS	2009)	Third Quarter (September 2009)
SAMPLING DATE	Recommended	1W-S-6-17-09	MW-N-9/18/09
LAB SAMPLE ID	Groundwater Criteria	6/17/2009	9/18/2009
Units	ug/l	L0908040-02	L0913185-01
ug/l	ug/l	ug/l	
Total Metals- Wesborough Lab			
Aluminum, Total	-	3300	220
Antimony, Total	3	0.6	0.5 U
Arsenic, Total	25	6	15
Barium, Total	1000	99	70
Calcium, Total	-	30000	410000
Chromium, Total	50	10 U	10 U
Copper, Total	200	10 U	10 U
Iron, Total	300	1200	1200
Lead, Total	25	45	10 U
Magnesium, Total	35000	8000	59000
Manganese, Total	300	403	1340
Mercury, Total	0.7	0.2 U	0.2 U
Nickel, Total	100	37	25 U
Potassium, Total	-	9000	31000
Sodium, Total	20000	10000	250000
Vanadium, Total	-	10 U	10 U
Zinc, Total	2000	50 U	50 U
Cyanide- Wesborough Lab			
Cyanide, Total	200	920 D ⁵	799 D ²
Cyanide, Physiologically Available	-	350 D ⁵	185

Notes:

- Groundwater samples were compared to New York State Technical and Operations Guidance Series (TOGS 1.1.1) Ar
- NYSDEC TOGS exceedances are highlighted and BOLD
- Method Detection Limits (MDLs) are elevated above TOGS high levels of contamination
- ug/L: Micrograms per Liter

Qualifiers:

- U- Concentration is less than value shown, this is the MDL
- D^x- Dillution factor of X

ATTACHMENT A
SOIL BORING AND WELL CONSTRUCTION LOGS

WELL CONSTRUCTION SUMMARY

Well No. MW-N

PROJECT River Place		PROJECT NO. 170040901	
LOCATION W. 42nd Street and 11th Avenue, NY, NY		ELEVATION AND DATUM	
DRILLING AGENCY ADT		DATE STARTED 2/28/2009	DATE FINISHED 2/28/2009
DRILLING EQUIPMENT CME 75		DRILLER ADT (Jeremy)	
SIZE AND TYPE OF BIT 4.5 ID Hollow Stem Augers		INSPECTOR J. Good	
METHOD OF INSTALLATION Drilled boring to 26 ft, backfilled with silica sand to 20 ft bgs, set 2" PVC well at 20 ft bgs with 10 ft of screen and 10 ft of riser			
METHOD OF WELL DEVELOPMENT Whale pump used to purge well			
TYPE OF CASING Schedule 40 PVC		DIAMETER 2 inch	
TYPE OF SCREEN 20 Slot		DIAMETER 2 inch	
BOREHOLE DIAMETER 8.5 inch		TYPE OF BACKFILL MATERIAL 10-20 Silica Sand	
TYPE OF SEAL MATERIAL Bentonite			
TOP OF CASING	ELEVATION	DEPTH (ft)	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
SCREEN LENGTH		(ft)	
SLOT SIZE			
20			
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
		13 ft	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
			SUMMARY SOIL CLASSIFICATION Brown medium grain sand with some silt, gravel, and brick, and trace wood (Fill), Dry MGP impacted black medium sand with some gravel and wood (Fill), Moist MGP impact medium to fine grain clay with some sand and silt, Wet
LANGAN Engineering and Environmental Services, Inc. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727			

WELL CONSTRUCTION SUMMARY

Well No. MW-S

PROJECT River Place			PROJECT NO. 170040901		
LOCATION W. 42nd Street and 11th Avenue, NY, NY			ELEVATION AND DATUM		
DRILLING AGENCY ADT			DATE STARTED 3/6/2009		DATE FINISHED 3/6/2009
DRILLING EQUIPMENT CME 75			DRILLER ADT (Jeremy)		
SIZE AND TYPE OF BIT 4.5 ID Hollow Stem Augers			INSPECTOR S. Flanagan		
METHOD OF INSTALLATION Drilled boring to 22 ft bgs, backfilled with silica sand to 20 ft bgs, set 2" PVC well at 20 ft bgs with 10 ft of screen and 10 ft of riser					
METHOD OF WELL DEVELOPMENT Whale pump used to purge well					
TYPE OF CASING Schedule 40 PVC		DIAMETER 2 inch	TYPE OF BACKFILL MATERIAL 10-20 Silica Sand		
TYPE OF SCREEN 20 Slot		DIAMETER 2 inch	TYPE OF SEAL MATERIAL Bentonite		
BOREHOLE DIAMETER 8.5 inch					
TOP OF CASING	ELEVATION	DEPTH (ft)	The diagram illustrates the well construction. It shows a vertical casing with a cover at the top. A 2-inch PVC riser extends from the casing. A seal is located at the 7-foot depth. A screen is installed at the 10-foot depth, extending down to 22 feet. A sand pack is shown around the screen. The well is filled with brown medium grain sand with some silt, gravel, and trace wood (fill), which is dry. Below the screen, there is MGP impacted black medium sand with some gravel and wood (fill), which is wet.		DEPTH (FT)
		0			
TOP OF SEAL	ELEVATION	DEPTH (ft)			
		7			
TOP OF FILTER	ELEVATION	DEPTH (ft)			
		8			
TOP OF SCREEN	ELEVATION	DEPTH (ft)			
		10			
BOTTOM OF BORING	ELEVATION	DEPTH (ft)			
		22			
SCREEN LENGTH		(ft)			
		10			
SLOT SIZE					
20					
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER			
		10.88 ft			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
LANGAN Engineering and Environmental Services, Inc. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727					

ATTACHMENT B
GROUNDWATER SAMPLING FORMS

GROUND WATER SAMPLE FIELD INFORMATION FORM

[illegible]

ATTACHMENT C
**LABORATORY ANALYTICAL REPORTS, CHAIN-OF-
CUSTODY, AND CERTIFICATIONS**



ANALYTICAL REPORT

Lab Number:	L0913185
Client:	Langan Engineering and Environmental Ser 21 Penn Plaza 360 W. 31st Street 8th Floor
ATTN:	New York, NY 10001-2727 Jason Hayes
Project Name:	RIVER PLACE
Project Number:	170040901
Report Date:	09/25/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



09250912:46

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0913185-01	MW-N-9/18/09	NY, NY	09/18/09 11:25
L0913185-02	TRIP BLANK	NY, NY	09/18/09 00:00



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics

L0913185-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Semivolatile Organics

L0913185-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L0913185-01 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Case Narrative (continued)

calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

The WG380506-2 LCS recovery associated with L0913185-01 was above the acceptance criteria for 2,4-Dinitrotoluene (102%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

Semivolatile Organics-SIM

L0913185-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L0913185-01 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

The surrogate recoveries for L0913185-01 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol and 4-Terphenyl-d14 (All at 0%) due to the dilution required to quantitate the sample. Re-extraction is not required; therefore, the results of the original analysis are reported.

Metals

The WG380845-4 MS recoveries associated with L0913185-01 are invalid for Calcium (0%) and Sodium (0%) because the sample concentrations are greater than four times the spike amount added.

Cyanide, Total

L0913185-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

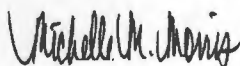
Case Narrative (continued)

Cyanide, Physiologically Available

The WG380525-3 Laboratory Duplicate RPD associated with L0913185-01 is outside the acceptance criteria (41%). The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 09/25/09

ORGANICS



VOLATILES

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01
 Client ID: MW-N-9/18/09
 Sample Location: NY, NY
 Matrix: Water
 Analytical Method: 1,8260B
 Analytical Date: 09/24/09 09:51
 Analyst: PD

Date Collected: 09/18/09 11:25
 Date Received: 09/18/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	2500	500
1,1-Dichloroethane	ND		ug/l	380	500
Chloroform	ND		ug/l	380	500
Carbon tetrachloride	ND		ug/l	250	500
1,2-Dichloropropane	ND		ug/l	880	500
Dibromochloromethane	ND		ug/l	250	500
1,1,2-Trichloroethane	ND		ug/l	380	500
Tetrachloroethene	ND		ug/l	250	500
Chlorobenzene	ND		ug/l	250	500
Trichlorofluoromethane	ND		ug/l	1200	500
1,2-Dichloroethane	ND		ug/l	250	500
1,1,1-Trichloroethane	ND		ug/l	250	500
Bromodichloromethane	ND		ug/l	250	500
trans-1,3-Dichloropropene	ND		ug/l	250	500
cis-1,3-Dichloropropene	ND		ug/l	250	500
1,1-Dichloropropene	ND		ug/l	1200	500
Bromoform	ND		ug/l	1000	500
1,1,2,2-Tetrachloroethane	ND		ug/l	250	500
Benzene	15000		ug/l	250	500
Toluene	4100		ug/l	380	500
Ethylbenzene	1800		ug/l	250	500
Chloromethane	ND		ug/l	1200	500
Bromomethane	ND		ug/l	500	500
Vinyl chloride	ND		ug/l	500	500
Chloroethane	ND		ug/l	500	500
1,1-Dichloroethene	ND		ug/l	250	500
trans-1,2-Dichloroethene	ND		ug/l	380	500
Trichloroethene	ND		ug/l	250	500
1,2-Dichlorobenzene	ND		ug/l	1200	500
1,3-Dichlorobenzene	ND		ug/l	1200	500

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01

Date Collected: 09/18/09 11:25

Client ID: MW-N-9/18/09

Date Received: 09/18/09

Sample Location: NY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
-----------	--------	-----------	-------	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab

1,4-Dichlorobenzene	ND		ug/l	1200	500
Methyl tert butyl ether	ND		ug/l	500	500
p/m-Xylene	2900		ug/l	500	500
o-Xylene	1200		ug/l	500	500
cis-1,2-Dichloroethene	ND		ug/l	250	500
Dibromomethane	ND		ug/l	2500	500
1,2,3-Trichloropropane	ND		ug/l	2500	500
Acrylonitrile	ND		ug/l	2500	500
Styrene	ND		ug/l	500	500
Dichlorodifluoromethane	ND		ug/l	2500	500
Acetone	ND		ug/l	2500	500
Carbon disulfide	ND		ug/l	2500	500
2-Butanone	ND		ug/l	2500	500
Vinyl acetate	ND		ug/l	2500	500
4-Methyl-2-pentanone	ND		ug/l	2500	500
2-Hexanone	ND		ug/l	2500	500
Bromochloromethane	ND		ug/l	1200	500
2,2-Dichloropropane	ND		ug/l	1200	500
1,2-Dibromoethane	ND		ug/l	1000	500
1,3-Dichloropropane	ND		ug/l	1200	500
1,1,1,2-Tetrachloroethane	ND		ug/l	250	500
Bromobenzene	ND		ug/l	1200	500
n-Butylbenzene	ND		ug/l	250	500
sec-Butylbenzene	ND		ug/l	250	500
tert-Butylbenzene	ND		ug/l	1200	500
o-Chlorotoluene	ND		ug/l	1200	500
p-Chlorotoluene	ND		ug/l	1200	500
1,2-Dibromo-3-chloropropane	ND		ug/l	1200	500
Hexachlorobutadiene	ND		ug/l	300	500
Isopropylbenzene	ND		ug/l	250	500
p-Isopropyltoluene	ND		ug/l	250	500
Naphthalene	19000		ug/l	1200	500
n-Propylbenzene	ND		ug/l	250	500
1,2,3-Trichlorobenzene	ND		ug/l	1200	500
1,2,4-Trichlorobenzene	ND		ug/l	1200	500
1,3,5-Trimethylbenzene	ND		ug/l	1200	500
1,2,4-Trimethylbenzene	ND		ug/l	1200	500

09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01

Date Collected: 09/18/09 11:25

Client ID: MW-N-9/18/09

Date Received: 09/18/09

Sample Location: NY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

1,4-Diethylbenzene	ND		ug/l	1000	500
4-Ethyltoluene	ND		ug/l	1000	500
1,2,4,5-Tetramethylbenzene	ND		ug/l	1000	500
Ethyl ether	ND		ug/l	1200	500
trans-1,4-Dichloro-2-butene	ND		ug/l	1200	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	93		70-130



09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-02
 Client ID: TRIP BLANK
 Sample Location: NY, NY
 Matrix: Water
 Analytical Method: 1,8260B
 Analytical Date: 09/24/09 10:27
 Analyst: PD

Date Collected: 09/18/09 00:00
 Date Received: 09/18/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1



09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-02

Date Collected: 09/18/09 00:00

Client ID: TRIP BLANK

Date Received: 09/18/09

Sample Location: NY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1



09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-02

Date Collected: 09/18/09 00:00

Client ID: TRIP BLANK

Date Received: 09/18/09

Sample Location: NY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/24/09 09:16
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG381211-3				

Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/24/09 09:16
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG381211-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Acrylonitrile	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
Vinyl acetate	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/24/09 09:16
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG381211-3				
n-Propylbenzene	ND		ug/l	0.50
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
1,4-Diethylbenzene	ND		ug/l	2.0
4-Ethyltoluene	ND		ug/l	2.0
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0
Ethyl ether	ND		ug/l	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG381211-1 WG381211-2					
Chlorobenzene	102	91	75-130	11	20
Benzene	103	92	76-127		20
Toluene	104	94	76-125	10	20
1,1-Dichloroethene	100	90	61-145	11	20
Trichloroethene	95	88	71-120	8	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		93		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	105		106		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01
 Client ID: MW-N-9/18/09
 Sample Location: NY, NY
 Matrix: Water
 Analytical Method: 1,8270C
 Analytical Date: 09/22/09 15:39
 Analyst: PS

Date Collected: 09/18/09 11:25
 Date Received: 09/18/09
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/l	24	5
Bis(2-chloroethyl)ether	ND		ug/l	24	5
1,2-Dichlorobenzene	ND		ug/l	24	5
1,3-Dichlorobenzene	ND		ug/l	24	5
1,4-Dichlorobenzene	ND		ug/l	24	5
3,3'-Dichlorobenzidine	ND		ug/l	240	5
2,4-Dinitrotoluene	ND		ug/l	29	5
2,6-Dinitrotoluene	ND		ug/l	24	5
4-Chlorophenyl phenyl ether	ND		ug/l	24	5
4-Bromophenyl phenyl ether	ND		ug/l	24	5
Bis(2-chloroisopropyl)ether	ND		ug/l	24	5
Bis(2-chloroethoxy)methane	ND		ug/l	24	5
Hexachlorocyclopentadiene	ND		ug/l	140	5
Isophorone	ND		ug/l	24	5
Nitrobenzene	ND		ug/l	24	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	72	5
n-Nitrosodi-n-propylamine	ND		ug/l	24	5
Bis(2-Ethylhexyl)phthalate	46		ug/l	24	5
Butyl benzyl phthalate	ND		ug/l	24	5
Di-n-butylphthalate	ND		ug/l	24	5
Di-n-octylphthalate	ND		ug/l	24	5
Diethyl phthalate	ND		ug/l	24	5
Dimethyl phthalate	ND		ug/l	24	5
Biphenyl	36		ug/l	24	5
4-Chloroaniline	ND		ug/l	24	5
2-Nitroaniline	ND		ug/l	24	5
3-Nitroaniline	ND		ug/l	24	5
4-Nitroaniline	ND		ug/l	34	5
Dibenzofuran	56		ug/l	24	5
1,2,4,5-Tetrachlorobenzene	ND		ug/l	96	5



Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01
 Client ID: MW-N-9/18/09
 Sample Location: NY, NY

Date Collected: 09/18/09 11:25
 Date Received: 09/18/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acetophenone	ND		ug/l	96	5
2,4,6-Trichlorophenol	ND		ug/l	24	5
P-Chloro-M-Cresol	ND		ug/l	24	5
2-Chlorophenol	ND		ug/l	29	5
2,4-Dichlorophenol	ND		ug/l	48	5
2,4-Dimethylphenol	1200	E	ug/l	48	5
2-Nitrophenol	ND		ug/l	96	5
4-Nitrophenol	ND		ug/l	48	5
2,4-Dinitrophenol	ND		ug/l	140	5
4,6-Dinitro-o-cresol	ND		ug/l	96	5
Pentachlorophenol	ND		ug/l	48	5
Phenol	87		ug/l	34	5
2-Methylphenol	290		ug/l	29	5
3-Methylphenol/4-Methylphenol	110		ug/l	29	5
2,4,5-Trichlorophenol	ND		ug/l	24	5
Benzoic Acid	ND		ug/l	240	5
Benzyl Alcohol	ND		ug/l	48	5
Carbazole	270		ug/l	24	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	105		33-120

09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01
 Client ID: MW-N-9/18/09
 Sample Location: NY, NY
 Matrix: Water
 Analytical Method: 1,8270C
 Analytical Date: 09/22/09 20:44
 Analyst: AK

Date Collected: 09/18/09 11:25
 Date Received: 09/18/09
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 09/19/09 16:17

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Acenaphthene	99		ug/l	9.6	50
2-Chloronaphthalene	ND		ug/l	9.6	50
Fluoranthene	14		ug/l	9.6	50
Hexachlorobutadiene	ND		ug/l	24	50
Naphthalene	5900	E	ug/l	9.6	50
Benzo(a)anthracene	ND		ug/l	9.6	50
Benzo(a)pyrene	ND		ug/l	9.6	50
Benzo(b)fluoranthene	ND		ug/l	9.6	50
Benzo(k)fluoranthene	ND		ug/l	9.6	50
Chrysene	ND		ug/l	9.6	50
Acenaphthylene	42		ug/l	9.6	50
Anthracene	11		ug/l	9.6	50
Benzo(ghi)perylene	ND		ug/l	9.6	50
Fluorene	47		ug/l	9.6	50
Phenanthrene	62		ug/l	9.6	50
Dibenzo(a,h)anthracene	ND		ug/l	9.6	50
Indeno(1,2,3-cd)Pyrene	ND		ug/l	9.6	50
Pyrene	10		ug/l	9.6	50
2-Methylnaphthalene	340		ug/l	9.6	50
Hexachlorobenzene	ND		ug/l	38	50
Hexachloroethane	ND		ug/l	38	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0		21-120
Phenol-d6	0		10-120
Nitrobenzene-d5	0		23-120
2-Fluorobiphenyl	0		15-120
2,4,6-Tribromophenol	0		10-120
4-Terphenyl-d14	0		33-120



09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01 R
Client ID: MW-N-9/18/09
Sample Location: NY, NY
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/23/09 20:13
Analyst: AK

Date Collected: 09/18/09 11:25
Date Received: 09/18/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:17

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Naphthalene	9400		ug/l	190	1000



09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01 R
Client ID: MW-N-9/18/09
Sample Location: NY, NY
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/24/09 12:14
Analyst: PS

Date Collected: 09/18/09 11:25
Date Received: 09/18/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
2,4-Dimethylphenol	1200		ug/l	960	100

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 11:49
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL
Semi-volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG380506-1				
Acenaphthene	ND		ug/l	5.0
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Hexachlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
2-Chloronaphthalene	ND		ug/l	6.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Fluoranthene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorobutadiene	ND		ug/l	10
Hexachlorocyclopentadiene	ND		ug/l	30
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Naphthalene	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
n-Nitrosodi-n-propylamine	ND		ug/l	5.0
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Benzo(a)anthracene	ND		ug/l	5.0



Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

Method Blank Analysis

Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 09/23/09 11:49
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG380506-1				
Benzo(a)pyrene	ND		ug/l	5.0
Benzo(b)fluoranthene	ND		ug/l	5.0
Benzo(k)fluoranthene	ND		ug/l	5.0
Chrysene	ND		ug/l	5.0
Acenaphthylene	ND		ug/l	5.0
Anthracene	ND		ug/l	5.0
Benzo(ghi)perylene	ND		ug/l	5.0
Fluorene	ND		ug/l	5.0
Phenanthrene	ND		ug/l	5.0
Dibenzo(a,h)anthracene	ND		ug/l	5.0
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0
Pyrene	ND		ug/l	5.0
Biphenyl	ND		ug/l	5.0
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
2-Methylnaphthalene	ND		ug/l	5.0
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Pentachlorophenol	ND		ug/l	10



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 11:49
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG380506-1				
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	92		33-120

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/22/09 19:18
Analyst: AK

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:17

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG380507-1				
Acenaphthene	ND		ug/l	0.20
2-Chloronaphthalene	ND		ug/l	0.20
Fluoranthene	ND		ug/l	0.20
Hexachlorobutadiene	ND		ug/l	0.50
Naphthalene	ND		ug/l	0.20
Benzo(a)anthracene	ND		ug/l	0.20
Benzo(a)pyrene	ND		ug/l	0.20
Benzo(b)fluoranthene	ND		ug/l	0.20
Benzo(k)fluoranthene	ND		ug/l	0.20
Chrysene	ND		ug/l	0.20
Acenaphthylene	ND		ug/l	0.20
Anthracene	ND		ug/l	0.20
Benzo(ghi)perylene	ND		ug/l	0.20
Fluorene	ND		ug/l	0.20
Phenanthrene	ND		ug/l	0.20
Dibenzo(a,h)anthracene	ND		ug/l	0.20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20
Pyrene	ND		ug/l	0.20
2-Methylnaphthalene	ND		ug/l	0.20
Hexachlorobenzene	ND		ug/l	0.80
Hexachloroethane	ND		ug/l	0.80

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/22/09 19:18
Analyst: AK

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:17

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG380507-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	78		33-120



Lab Control Sample Analysis Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L0913185

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG380506-2 WG380506-3					
Acenaphthene	63	60	46-118	5	30
1,2,4-Trichlorobenzene	47	51	39-98	8	30
2-Chloronaphthalene	77	75	40-140	3	30
1,2-Dichlorobenzene	42	50	40-140	17	30
1,4-Dichlorobenzene	40	50	36-97	22	30
2,4-Dinitrotoluene	102	96	24-96	6	30
2,6-Dinitrotoluene	93	85	40-140	9	30
Fluoranthene	102	99	40-140	3	30
4-Chlorophenyl phenyl ether	77	73	40-140	5	30
n-Nitrosodi-n-propylamine	52	53	41-116	2	30
Butyl benzyl phthalate	103	102	40-140	1	30
Anthracene	92	89	40-140	3	30
Pyrene	96	94	26-127	2	30
P-Chloro-M-Cresol	80	76	23-97	5	30
2-Chlorophenol	47	56	27-123	17	30
2-Nitrophenol	64	68	30-130	6	30
4-Nitrophenol	56	55	10-80	2	30
2,4-Dinitrophenol	112	103	20-130	8	30
Pentachlorophenol	91	92	9-103	1	30
Phenol	25	26	12-110	4	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatiles by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG380506-2 WG380506-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		36		21-120
Phenol-d6	23		24		10-120
Nitrobenzene-d5	53		57		23-120
2-Fluorobiphenyl	65		63		15-120
2,4,6-Tribromophenol	105		100		10-120
4-Terphenyl-d14	100		95		33-120

Semivolatiles by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG380507-2 WG380507-3

Acenaphthene	78	59	46-118	
2-Chloronaphthalene	93	74	40-140	23
Fluoranthene	105	91	40-140	14
Anthracene	91	80	40-140	
Pyrene	102	89	26-127	14

Lab Control Sample Analysis Batch Quality Control

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG380507-2 WG380507-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		31		21-120
Phenol-d6	34		25		10-120
Nitrobenzene-d5	101		76		23-120
2-Fluorobiphenyl	74		58		15-120
2,4,6-Tribromophenol	93		71		10-120
4-Terphenyl-d14	93		81		33-120

Matrix Spike Analysis

Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380506-4 WG380506-5 QC Sample: L0913068-02 Client ID: MS Sample

Acenaphthene	ND	83.3	43	52	52	62	46-118	18	30
1,2,4-Trichlorobenzene	ND	83.3	33	40	42	50	39-98	22	30
2-Chloronaphthalene	ND	83.3	54	65	66	79	40-140	19	30
1,2-Dichlorobenzene	ND	83.3	30	36	40	48	40-140	29	30
1,4-Dichlorobenzene	ND	83.3	29	35	38	46	36-97	27	30
2,4-Dinitrotoluene	ND	83.3	83	100	79	95	24-96	5	30
2,6-Dinitrotoluene	ND	83.3	71	85	72	86	40-140	1	30
Fluoranthene	ND	83.3	89	110	85	100	40-140	10	30
4-Chlorophenyl phenyl ether	ND	83.3	57	68	63	76	40-140	11	30
n-Nitrosodi-n-propylamine	ND	83.3	33	40	47	56	41-116	33	30
Butyl benzyl phthalate	ND	83.3	87	100	84	100	40-140	0	30
Anthracene	ND	83.3	79	95	77	92	40-140	3	30
Pyrene	ND	83.3	83	100	80	96	26-127	4	30
P-Chloro-M-Cresol	ND	83.3	65	78	69	83	23-97	6	30
2-Chlorophenol	ND	83.3	34	41	52	62	27-123	41	30
2-Nitrophenol	ND	83.3	43	52	60	72	30-130	32	30
4-Nitrophenol	ND	83.3	69	83	67	80	10-80	4	30
2,4-Dinitrophenol	ND	83.3	91	110	86	100	20-130	10	30
Pentachlorophenol	ND	83.3	88	110	85	100	9-103	10	30
Phenol	ND	83.3	26	31	33	40	12-110	25	30

Matrix Spike Analysis Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L0913185

Report Date: 09/25/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380506-4 WG380506-5 QC Sample: L0913068-02 Client ID: MS Sample

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	110		109		10-120
2-Fluorobiphenyl	50		67		15-120
2-Fluorophenol	33		51		21-120
4-Terphenyl-d14	99		96		33-120
Nitrobenzene-d5	42		62		23-120
Phenol-d6	27		40		10-120

METALS



Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01
 Client ID: MW-N-9/18/09
 Sample Location: NY, NY
 Matrix: Water

Date Collected: 09/18/09 11:25
 Date Received: 09/18/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Aluminum, Total	0.22		mg/l	0.10	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Antimony, Total	ND		mg/l	0.0005	1	09/22/09 14:00	09/22/09 20:02	EPA 3005A	1,6020	BM
Arsenic, Total	0.015		mg/l	0.005	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Barium, Total	0.070		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	1	09/22/09 14:00	09/22/09 20:02	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Calcium, Total	410		mg/l	0.10	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Iron, Total	1.2		mg/l	0.05	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Magnesium, Total	59		mg/l	0.10	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Manganese, Total	1.34		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	1	09/22/09 17:05	09/23/09 11:31	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Potassium, Total	31		mg/l	2.5	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Sodium, Total	250		mg/l	2.0	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0005	1	09/22/09 14:00	09/22/09 20:02	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	1	09/22/09 13:20	09/23/09 10:27	EPA 3005A	1,6010B	AI



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG380845-1									
Aluminum, Total	ND		mg/l	0.10	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Arsenic, Total	ND		mg/l	0.005	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Barium, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Calcium, Total	ND		mg/l	0.10	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Copper, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Iron, Total	ND		mg/l	0.05	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Lead, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Magnesium, Total	ND		mg/l	0.10	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Manganese, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Nickel, Total	ND		mg/l	0.025	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Potassium, Total	ND		mg/l	2.5	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Silver, Total	ND		mg/l	0.007	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Sodium, Total	ND		mg/l	2.0	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Vanadium, Total	ND		mg/l	0.010	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	1	09/22/09 13:20	09/23/09 10:21	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG380853-1									
Antimony, Total	ND		mg/l	0.0005	1	09/22/09 14:00	09/22/09 19:14	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	1	09/22/09 14:00	09/22/09 19:14	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	1	09/22/09 14:00	09/22/09 19:14	1,6020	BM



09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

**Method Blank Analysis
Batch Quality Control****Prep Information**

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG380870-1									
Mercury, Total	ND		mg/l	0.0002	1	09/22/09 17:05	09/23/09 11:12	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L0913185

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG380845-2					
Aluminum, Total	95	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	99	-	80-120	-	
Cadmium, Total	108	-	80-120	-	
Calcium, Total	99	-	80-120	-	
Chromium, Total	95	-	80-120	-	
Cobalt, Total	102	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	96	-	80-120	-	
Lead, Total	104	-	80-120	-	
Magnesium, Total	95	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	108	-	80-120	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	100	-	80-120	-	
Vanadium, Total	96	-	80-120	-	
Zinc, Total	104	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L0913185

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG380853-2					
Antimony, Total	94	-	80-120	-	
Beryllium, Total	92	-	80-120	-	
Thallium, Total	89	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG380870-2					
Mercury, Total	114	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380845-4 QC Sample: L0913185-01 Client ID: MW-N-9/18/09									
Aluminum, Total	0.22	2	2.2	99	-	-	75-125	-	20
Arsenic, Total	0.015	0.12	0.143	107	-	-	75-125	-	20
Barium, Total	0.070	2	2.16	104	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.053	104	-	-	75-125	-	20
Calcium, Total	410	10	410	0	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.19	95	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.518	104	-	-	75-125	-	20
Copper, Total	ND	0.25	0.284	114	-	-	75-125	-	20
Iron, Total	1.2	1	2.2	100	-	-	75-125	-	20
Lead, Total	ND	0.51	0.542	106	-	-	75-125	-	20
Magnesium, Total	59	10	68	90	-	-	75-125	-	20
Manganese, Total	1.34	0.5	1.80	92	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.504	101	-	-	75-125	-	20
Potassium, Total	31	10	41	100	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.101	84	-	-	75-125	-	20
Silver, Total	ND	0.05	0.054	108	-	-	75-125	-	20
Sodium, Total	250	10	250	0	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.500	100	-	-	75-125	-	20
Zinc, Total	ND	0.5	0.497	99	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L0913185

Report Date: 09/25/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380853-4 QC Sample: L0913185-01 Client ID: MW-N-9/18/09									
Antimony, Total	ND	0.5	0.4888	98	-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.0476	95	-	-	80-120	-	20
Thallium, Total	ND	0.12	0.1095	91	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380870-4 QC Sample: L0913112-03 Client ID: MS Sample									
Mercury, Total	ND	0.001	0.0015		-	-	70-130	-	20

Project Name: RIVER PLACE
Project Number: 170040901

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L0913185
Report Date: 09/25/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380845-3 QC Sample: L0913185-01 Client ID: MW-N-9/18/09					
Aluminum, Total	0.22	0.21	mg/l	5	20
Arsenic, Total	0.015	0.014	mg/l	3	20
Barium, Total	0.070	0.072	mg/l	2	20
Cadmium, Total	ND	ND	mg/l		20
Calcium, Total	410	410	mg/l	0	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	1.2	1.2	mg/l	0	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	59	60	mg/l	2	20
Manganese, Total	1.34	1.34	mg/l	0	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	31	31	mg/l	0	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	250	250	mg/l	0	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

Project Name: RIVER PLACE
Project Number: 170040901

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L0913185
Report Date: 09/25/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380853-3 QC Sample: L0913185-01 Client ID: MW-N-9/18/09					
Antimony, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380870-3 QC Sample: L0913112-03 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

09250912:46

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

SAMPLE RESULTS

Lab ID: L0913185-01

Date Collected: 09/18/09 11:25

Client ID: MW-N-9/18/09

Date Received: 09/18/09

Sample Location: NY, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Cyanide, Total	0.799		mg/l	0.010	2	09/20/09 18:15	09/21/09 17:39	1,9010B/9012A	DD
Cyanide, Physiologically Available	0.185		mg/l	0.005	1	09/20/09 18:35	09/21/09 18:06	64,9014(M)	DD



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG380525-1								
Cyanide, Physiologically Available	ND	mg/l	0.005	1	09/20/09 18:35	09/21/09 18:03	64,9014(M)	DD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG380526-1								
Cyanide, Total	ND	mg/l	0.005	1	09/20/09 18:15	09/21/09 16:33	1,9010B/9012A	DD



Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L0913185

Report Date: 09/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG380525-2					
Cyanide, Physiologically Available	101	-	-	-	-
General Chemistry - Westborough Lab NEGATIVE LCS Associated sample(s): 01 Batch: WG380525-4					
Cyanide, Physiologically Available	1	-	0-10	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG380526-2					
Cyanide, Total	101	-	80-120	-	-

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380526-3 WG380526-4 QC Sample: L0913185-01 Client ID: MW-N-9/18/09									
Cyanide, Total	0.799	0.2	0.930	84	0.999	100	80-120		30

Project Name: RIVER PLACE
Project Number: 170040901

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L0913185
Report Date: 09/25/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG380525-3 QC Sample: L0913185-01 Client ID: MW-N-9/18/09					
Cyanide, Physiologically Available	0.185	0.280	mg/l	41	

Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0913185-01A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L0913185-01B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L0913185-01C	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L0913185-01D	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L0913185-01E	Plastic 250ml NaOH preserved	A	>12	2.3	Y	Absent	TCN-9010(14)
L0913185-01F	Plastic 250ml NaOH preserved	A	>12	2.3	Y	Absent	PACN(14)
L0913185-01G	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L0913185-02A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)

*Hold days indicated by values in parentheses



Project Name: RIVER PLACE

Lab Number: L0913185

Project Number: 170040901

Report Date: 09/25/09

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND - Not detected at the reported detection limit for the sample.
- NI - Not Ignitable.
- RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- R - Analytical results are from sample re-analysis.
- RE - Analytical results are from sample re-extraction.
- J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L0913185
Report Date: 09/25/09

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised September 22, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. *Organic Parameters:* Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. *Organic Parameters:* PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. *Organic Parameters:* PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. *Organic Parameters:* 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. *Organic Parameters:* 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C,

SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2

for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA

410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.**

Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Non-NELAC Approved Analytes

The following analytes are considered non-NELAC certifiable parameters for the listed method: EPA 8260B: Freon-113. EPA 8330A: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2010
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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B
Ethyl methacrylate	EPA 8260B
Methyl methacrylate	EPA 8260B

Amines

1,4-Phenylenediamine	EPA 8270C
1-Naphthylamine	EPA 8270C
2-Naphthylamine	EPA 8270C
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
5-Nitro-o-toluidine	EPA 8270C
Aniline	EPA 8270C
Carbazole	EPA 8270C
Diphenylamine	EPA 8270C
Methapyrillene	EPA 8270C
Pronamide	EPA 8270C
Propionitrile	EPA 8260B
Pyridine	EPA 8260B

Benzidines

3,3'-Dichlorobenzidine	EPA 625
	EPA 8270C
3,3'-Dimethylbenzidine	EPA 8270C
Benzidine	EPA 625
	EPA 8270C

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 608
	EPA 8081A
4,4'-DDE	EPA 608
	EPA 8081A
4,4'-DDT	EPA 608
	EPA 8081A
Aldrin	EPA 608
	EPA 8081A
alpha-BHC	EPA 608
	EPA 8081A
alpha-Chlordane	EPA 8081A
beta-BHC	EPA 608
	EPA 8081A
Chlordane Total	EPA 608
	EPA 8081A
delta-BHC	EPA 608
	EPA 8081A
Dieldrin	EPA 608
	EPA 8081A
Endosulfan I	EPA 608
	EPA 8081A
Endosulfan II	EPA 608
	EPA 8081A
Endosulfan sulfate	EPA 608
	EPA 8081A
Endrin	EPA 608
	EPA 8081A
Endrin aldehyde	EPA 608

Serial No.: 39518

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Chlorinated Hydrocarbon Pesticides

Endrin aldehyde	EPA 8081A
Endrin Ketone	EPA 8081A
gamma-Chlordane	EPA 8081A
Heptachlor	EPA 608
	EPA 8081A
Heptachlor epoxide	EPA 608
	EPA 8081A
Lindane	EPA 608
	EPA 8081A
Methoxychlor	EPA 8081A
Toxaphene	EPA 608
	EPA 8081A

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260B
1,2,4,5-Tetrachlorobenzene	EPA 8270C
1,2,4-Trichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
1-Chloronaphthalene	EPA 8270C
2-Chloronaphthalene	EPA 625
	EPA 8270C
Hexachlorobenzene	EPA 625
	EPA 8270C
Hexachlorobutadiene	EPA 625
	EPA 8270C
Hexachlorocyclopentadiene	EPA 625
	EPA 8270C
Hexachloroethane	EPA 625

Chlorinated Hydrocarbons

Hexachloroethane	EPA 8270C
Hexachloropropene	EPA 8270C
Pentachlorobenzene	EPA 8270C

Fuel Oxygenates

Ethanol	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
tert-amyl methyl ether	EPA 8260B
tert-Butyl alcohol	EPA 8260B

Haloethers

4-Bromophenylphenyl ether	EPA 625
	EPA 8270C
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 625
	EPA 8270C
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270C
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270C

Microextractables

1,2-Dibromo-3-chloropropane	EPA 8260B
	EPA 8270C
1,2-Dibromoethane	EPA 8260B

Mineral

Alkalinity	SM 18-21 2320B (97)
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Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270C
1,3-Dinitrobenzene	EPA 8270C
1,4-Naphthoquinone	EPA 8270C
2,4-Dinitrotoluene	EPA 625
	EPA 8270C
2,6-Dinitrotoluene	EPA 625
	EPA 8270C
Isophorone	EPA 625
	EPA 8270C
Nitrobenzene	EPA 625
	EPA 8270C

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270C
N-Nitrosodimethylamine	EPA 625
	EPA 8270C
N-Nitrosodi-n-butylamine	EPA 8260B
	EPA 8270C
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270C
N-Nitrosodiphenylamine	EPA 625
	EPA 8270C
N-nitrosopiperidine	EPA 8270C
N-Nitrosopyrrolidine	EPA 8270C

Organophosphate Pesticides

Famphur	EPA 8270C
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Phthalate Esters

Benzyl butyl phthalate	EPA 625
	EPA 8270C
Bis(2-ethylhexyl) phthalate	EPA 625
	EPA 8270C
Diethyl phthalate	EPA 625
	EPA 8270C
Dimethyl phthalate	EPA 625
	EPA 8270C
Di-n-butyl phthalate	EPA 625
	EPA 8270C
Di-n-octyl phthalate	EPA 625
	EPA 8270C

Polychlorinated Biphenyls

2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	EPA 8082
2,2',3,3',4,4',5-Heptachlorobiphenyl	EPA 8082
2,2',3,3',4,4'-Hexachlorobiphenyl	EPA 8082
2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 8082
2,2',3,5'-Tetrachlorobiphenyl	EPA 8082
2,2',5,5'-Tetrachlorobiphenyl	EPA 8082
2,2',5-Trichlorobiphenyl	EPA 8082
2,3',4,4'-Tetrachlorobiphenyl	EPA 8082
PCB-1016	EPA 608
PCB-1221	EPA 608
PCB-1232	EPA 608
PCB-1242	EPA 608
PCB-1248	EPA 608
PCB-1254	EPA 608
PCB-1260	EPA 608

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NY Lab Id No: 11627
EPA Lab Code: MA00030

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ENVIRONMENTAL ANALYSES NON POTABLE WATER.
All approved analytes are listed below:*

Polynuclear Aromatics

3-Methylcholanthrene	EPA 8270C
7,12-Dimethylbenzyl (a) anthracene	EPA 8270C
Acenaphthene	EPA 625
	EPA 8270C
Acenaphthylene	EPA 625
	EPA 8270C
Anthracene	EPA 625
	EPA 8270C
Benzo(a)anthracene	EPA 625
	EPA 8270C
Benzo(a)pyrene	EPA 625
	EPA 8270C
Benzo(b)fluoranthene	EPA 625
	EPA 8270C
Benzo(ghi)perylene	EPA 625
	EPA 8270C
Benzo(k)fluoranthene	EPA 625
	EPA 8270C
Chrysene	EPA 625
	EPA 8270C
Dibenzo(a,h)anthracene	EPA 625
	EPA 8270C
Fluoranthene	EPA 625
	EPA 8270C
Fluorene	EPA 625
	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 625
	EPA 8270C

Polynuclear Aromatics

Naphthalene	EPA 625
	EPA 8260B
	EPA 8270C
Phenanthrene	EPA 625
	EPA 8270C
Pyrene	EPA 625
	EPA 8270C

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270C
2,4,5-Trichlorophenol	EPA 8270C
2,4,6-Trichlorophenol	EPA 625
	EPA 8270C
2,4-Dichlorophenol	EPA 625
	EPA 8270C
2,4-Dimethylphenol	EPA 625
	EPA 8270C
2,4-Dinitrophenol	EPA 625
	EPA 8270C
2-Chlorophenol	EPA 625
	EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 625
	EPA 8270C
2-Methylphenol	EPA 8270C
2-Nitrophenol	EPA 625
	EPA 8270C
3-Methylphenol	EPA 8270C
4-Chloro-3-methylphenol	EPA 625
	EPA 8270C

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All approved analytes are listed below:

Priority Pollutant Phenols

4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 625
	EPA 8270C
Pentachlorophenol	EPA 625
	EPA 8270C
Phenol	EPA 625
	EPA 8270C

Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
1,3,5-Trimethylbenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
1,4-Dichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
Benzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Isopropylbenzene	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Toluene	EPA 8260B

Purgeable Aromatics

Total Xylenes	EPA 8260B
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Purgeable Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
3-Chloropropene (Allyl chloride)	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform	EPA 8260B
Bromomethane	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chloroethane	EPA 8260B
Chloroform	EPA 8260B
Chloromethane	EPA 8260B
cis-1,2-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dibromomethane	EPA 8260B

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Purgeable Halocarbons

Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
trans-1,4-Dichloro-2-butene	EPA 8260B
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

Purgeable Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Acetonitrile	EPA 8260B
Carbon Disulfide	EPA 8260B
Ethyl Acetate	EPA 8260B
Isobutyl alcohol	EPA 8260B
o-Toluidine	EPA 8260B
	EPA 8270C
Vinyl acetate	EPA 8260B

Residue

Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-20 2540D (97)

Semi-Volatile Organics

2-Methylnaphthalene	EPA 8270C
4-Amino biphenyl	EPA 8270C
Acetophenone	EPA 8270C
Benzole Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Dibenzofuran	EPA 8270C
Ethyl methanesulfonate	EPA 8270C
Isosafrole	EPA 8270C
Methyl methanesulfonate	EPA 8270C
O,O,O-Triethyl phosphorothioate	EPA 8270C
p-Dimethylaminoazobenzene	EPA 8270C
Phenacetin	EPA 8270C
Safrole	EPA 8270C

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260B
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Wastewater Metals I

Barium, Total	EPA 200.8 Rev. 5.4 EPA 6020
Cadmium, Total	EPA 200.8 Rev. 5.4 EPA 6020
Chromium, Total	EPA 200.8 Rev. 5.4 EPA 6020
Copper, Total	EPA 200.8 Rev. 5.4 EPA 6020
Lead, Total	EPA 200.8 Rev. 5.4 EPA 6020
Manganese, Total	EPA 200.8 Rev. 5.4

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Wastewater Metals I

Manganese, Total	EPA 8020
Nickel, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Silver, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Strontium, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Metals II

Aluminum, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Antimony, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Arsenic, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Beryllium, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Mercury, Total	EPA 1631E
	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Vanadium, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Zinc, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Metals III

Cobalt, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Metals III

Molybdenum, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Thallium, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Miscellaneous

Cyanide, Total	EPA 9014
Hydrogen Ion (pH)	EPA 9040B
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfide (as S)	EPA 376.2
Turbidity	EPA 180.1 Rev. 2.0

Sample Preparation Methods

EPA 3510C
EPA 3511
EPA 5030B
EPA 9010B

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls

2,3',4,4',5-Pentachlorobiphenyl

EPA 8082

Serial No.: 39519

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Acrylates

Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B
Ethyl methacrylate	EPA 8260B
Methyl acrylonitrile	EPA 8260B
Methyl methacrylate	EPA 8260B

Amines

1,2-Diphenylhydrazine	EPA 8270C
1,4-Phenylenediamine	EPA 8270C
1-Naphthylamine	EPA 8270C
2-Naphthylamine	EPA 8270C
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4,4'-Oxydianiline	EPA 8270C
4-Chloro-1,2-phenylenediamine	EPA 8270C
4-Chloro-1,3-phenylenediamine	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
5-Chloro-2-methylaniline	EPA 8270C
5-Nitro-o-toluidine	EPA 8270C
Aniline	EPA 8270C
Carbazole	EPA 8270C
Diphenylamine	EPA 8270C
Methapyriline	EPA 8270C
o-Anisidine	EPA 8270C
Pronamide	EPA 8270C

Benzidines

3,3'-Dichlorobenzidine	EPA 8270C
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Benzidines

3,3'-Dimethylbenzidine	EPA 8270C
Benzidine	EPA 8270C

Characteristic Testing

Corrosivity	EPA 9040B EPA 9045C
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Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081A
4,4'-DDE	EPA 8081A
4,4'-DDT	EPA 8081A
Aldrin	EPA 8081A
alpha-BHC	EPA 8081A
alpha-Chlordane	EPA 8081A
beta-BHC	EPA 8081A
Chlordane Total	EPA 8081A
Chlorobenzilate	EPA 8081A
delta-BHC	EPA 8081A
Diallate	EPA 8081A
Dieldrin	EPA 8081A
Endosulfan I	EPA 8081A
Endosulfan II	EPA 8081A
Endosulfan sulfate	EPA 8081A
Endrin	EPA 8081A
Endrin aldehyde	EPA 8081A
Endrin Ketone	EPA 8081A
gamma-Chlordane	EPA 8081A
Heptachlor	EPA 8081A
Heptachlor epoxide	EPA 8081A

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NELAP Recognized

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE
Issued in accordance with and pursuant to section 502 Public Health Law of New York State

DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Kepone	EPA 8081A
Lindane	EPA 8081A
Methoxychlor	EPA 8081A
Pentachloronitrobenzene	EPA 8081A
Toxaphene	EPA 8081A
Trifluralin	EPA 8081A

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270C
1,2,4-Trichlorobenzene	EPA 8260B
	EPA 8270C
1-Chloronaphthalene	EPA 8270C
2-Chloronaphthalene	EPA 8270C
Hexachlorobenzene	EPA 8270C
Hexachlorobutadiene	EPA 8260B
	EPA 8270C
Hexachlorocyclopentadiene	EPA 8270C
Hexachloroethane	EPA 8270C
Hexachlorophene	EPA 8270C
Hexachloropropene	EPA 8270C
Pentachlorobenzene	EPA 8270C

Haloethers

4-Bromophenylphenyl ether	EPA 8270C
4-Chlorophenylphenyl ether	EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 8270C
Bis(2-chloroethoxy)methane	EPA 8270C
Bis(2-chloroethyl)ether	EPA 8270C

Metals I

Barium, Total	EPA 6020
Cadmium, Total	EPA 6020
Chromium, Total	EPA 6020
Copper, Total	EPA 6020
Lead, Total	EPA 6020
Manganese, Total	EPA 6020
Nickel, Total	EPA 6020
Silver, Total	EPA 6020

Metals II

Aluminum, Total	EPA 6020
Antimony, Total	EPA 8020
Arsenic, Total	EPA 6020
Beryllium, Total	EPA 8020
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471A
	EPA 7474
Selenium, Total	EPA 6020
Vanadium, Total	EPA 6020
Zinc, Total	EPA 6020

Metals III

Cobalt, Total	EPA 6020
Molybdenum, Total	EPA 6020
Thallium, Total	EPA 6020

Miscellaneous

Cyanide, Total	EPA 9014
Hydrogen Ion (pH)	EPA 9040B

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DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Miscellaneous

Hydrogen Ion (pH) EPA 9045C

Nitroaromatics and Isophorone

1,2-Dinitrobenzene EPA 8270C
1,4-Dinitrobenzene EPA 8270C
1,4-Naphthoquinone EPA 8270C
2,4-Dinitrotoluene EPA 8270C
2,6-Dinitrotoluene EPA 8270C
Hydroquinone EPA 8270C
Isophorone EPA 8270C
Nitrobenzene EPA 8270C
Nitroquinoline-1-oxide EPA 8270C
Pyridine EPA 8260B
EPA 8270C

Nitrosoamines

N-Nitrosodimethylamine EPA 8270C
N-Nitrosodi-n-butylamine EPA 8260B
N-Nitrosodi-n-propylamine EPA 8270C
N-Nitrosodiphenylamine EPA 8270C
N-nitrosomethylethylamine EPA 8270C
N-nitrosomorpholine EPA 8270C
N-nitrosopiperidine EPA 8270C
N-Nitrosopyrrolidine EPA 8270C

Organophosphate Pesticides

Famphur EPA 8270C
Mevinphos EPA 8270C
TEPP EPA 8270C

Phthalate Esters

Benzyl butyl phthalate EPA 8270C
Bis(2-ethylhexyl) phthalate EPA 8270C
Diethyl phthalate EPA 8270C
Dimethyl phthalate EPA 8270C
Di-n-butyl phthalate EPA 8270C
Di-n-octyl phthalate EPA 8270C

Polychlorinated Biphenyls

2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl EPA 8082
2,2',3,3',4,4',5-Heptachlorobiphenyl EPA 8082
2,2',3,4,4',5,5'-Heptachlorobiphenyl EPA 8082
2,2',3,4,4',5,6-Heptachlorobiphenyl EPA 8082
2,2',3,4,4',5'-Hexachlorobiphenyl EPA 8082
2,2',3,4',5,6'-Heptachlorobiphenyl EPA 8082
2,2',3,4,5,5'-Hexachlorobiphenyl EPA 8082
2,2',3,4,5'-Pentachlorobiphenyl EPA 8082
2,2',3,5,5',6-Hexachlorobiphenyl EPA 8082
2,2',3,5'-Tetrachlorobiphenyl EPA 8082
2,2',4,4',5,5'-Hexachlorobiphenyl EPA 8082
2,2',4,5,5'-Pentachlorobiphenyl EPA 8082
2,2',5,5'-Tetrachlorobiphenyl EPA 8082
2,2',5-Trichlorobiphenyl EPA 8082
2,3,3',4,6-Pentachlorobiphenyl EPA 8082
2,3',4,4'-Tetrachlorobiphenyl EPA 8082
2,3-Dichlorobiphenyl EPA 8082
2,4',5-Trichlorobiphenyl EPA 8082
2-Chlorobiphenyl EPA 8082
PCB-1016 EPA 8082
PCB-1221 EPA 8082

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MANSFIELD, MA 02048

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB-1232	EPA 8082
PCB-1242	EPA 8082
PCB-1248	EPA 8082
PCB-1254	EPA 8082
PCB-1260	EPA 8082

Polynuclear Aromatic Hydrocarbons

3-Methylcholanthrene	EPA 8270C
7,12-Dimethylbenzyl (a) anthracene	EPA 8270C
Acenaphthene	EPA 8270C
Acenaphthylene	EPA 8270C
Anthracene	EPA 8270C
Benzo(a)anthracene	EPA 8270C
Benzo(a)pyrene	EPA 8270C
Benzo(b)fluoranthene	EPA 8270C
Benzo(ghi)perylene	EPA 8270C
Benzo(k)fluoranthene	EPA 8270C
Chrysene	EPA 8270C
Dibenzo(a,e)pyrene	EPA 8270C
Dibenzo(a,h)anthracene	EPA 8270C
Dibenzo(a,j)acridine	EPA 8270C
Fluoranthene	EPA 8270C
Fluorene	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 8270C
Naphthalene	EPA 8260B
	EPA 8270C
Phenanthrene	EPA 8270C
Pyrene	EPA 8270C

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270C
2,4,5-Trichlorophenol	EPA 8270C
2,4,6-Trichlorophenol	EPA 8270C
2,4-Dichlorophenol	EPA 8270C
2,4-Dimethylphenol	EPA 8270C
2,4-Dinitrophenol	EPA 8270C
2,6-Dichlorophenol	EPA 8270C
2-Chlorophenol	EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 8270C
2-Methylphenol	EPA 8270C
2-Nitrophenol	EPA 8270C
3-Methylphenol	EPA 8270C
4-Chloro-3-methylphenol	EPA 8270C
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 8270C
Pentachlorophenol	EPA 8270C
Phenol	EPA 8270C
Thiophenol	EPA 8270C

Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 8260B
	EPA 8270C
1,3,5-Trimethylbenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B
	EPA 8270C
1,4-Dichlorobenzene	EPA 8260B
	EPA 8270C
2-Chlorotoluene	EPA 8260B

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DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Purgeable Aromatics

4-Chlorotoluene	EPA 8260B
Benzene	EPA 8260B
Bromobenzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Isopropylbenzene	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Styrene	EPA 8260B
tert-Butylbenzene	EPA 8260B
Toluene	EPA 8260B
Total Xylenes	EPA 8260B

Purgeable Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8081A
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
1,3-Dichloro-2-propanol	EPA 8260B

Purgeable Halocarbons

1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
3-Chloropropene (Allyl chloride)	EPA 8260B
Bromoacetone	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform	EPA 8260B
Bromomethane	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chloroethane	EPA 8260B
Chloroform	EPA 8260B
Chloromethane	EPA 8260B
cis-1,2-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
cis-1,4-Dichloro-2-butene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dibromomethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
trans-1,4-Dichloro-2-butene	EPA 8260B
Trichloroethane	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Purgeable Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Acetonitrile	EPA 8260B
Carbon Disulfide	EPA 8260B
Ethyl Acetate	EPA 8260B
Isobutyl alcohol	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
o-Toluidine	EPA 8260B
	EPA 8270C
Propionitrile	EPA 8260B
tert-Butyl alcohol	EPA 8260B
Vinyl acetate	EPA 8260B

Semi-Volatile Organics

Resorcinol	EPA 8270C
Safrole	EPA 8270C
Toluene Dithiocyanate	EPA 8270C

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260B
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Sample Preparation Methods

EPA 1311
EPA 3050B
EPA 3580
EPA 5030B
EPA 5035
EPA 9010B

Semi-Volatile Organics

2-Methylnaphthalene	EPA 8270C
4-Amino biphenyl	EPA 8270C
Acetophenone	EPA 8270C
Benzoic Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Dibenzofuran	EPA 8270C
Diethyl sulfate	EPA 8270C
Dihydrosafrole	EPA 8270C
Ethyl methanesulfonate	EPA 8270C
Isosafrole	EPA 8270C
Methyl methanesulfonate	EPA 8270C
O,O,O-Triethyl phosphorothioate	EPA 8270C

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Acrylates

Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA TO-15
Hexachlorobutadiene	EPA TO-15

Polynuclear Aromatics

Naphthalene	EPA TO-15
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Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
Styrene	EPA TO-15
Toluene	EPA TO-15
Total Xylenes	EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1,2-Trifluoro-1,2,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15

Purgeable Halocarbons

1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15
Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15
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DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA. 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Volatile Organics

1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methyl ethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetone	EPA TO-15
Carbon Disulfide	EPA TO-15
Hexane	EPA TO-15
Methanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
Vinyl acetate	EPA TO-15

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MR. CHRISTOPHER WAKEFIELD
ALPHA ANALYTICAL
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Disinfection By-products

Bromochloroacetic acid	SM 19-21 6251B (94)
Dibromoacetic acid	SM 19-21 6251B (94)
Dichloroacetic acid	SM 19-21 6251B (94)
Monobromoacetic acid	SM 19-21 6251B (94)
Monochloroacetic acid	SM 19-21 6251B (94)
Trichloroacetic acid	SM 19-21 6251B (94)

Drinking Water Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 18-21 9223B (97) (Colliert)
	SM 18-21 9222B (97) / 40 CFR 141.21 (Fecal)
Standard Plate Count	SM 18-21 9215B

Drinking Water Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
Mercury, Total	EPA 245.2 Rev. 1974
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Drinking Water Metals I

Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Drinking Water Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Drinking Water Metals III

Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Drinking Water Miscellaneous

Organic Carbon, Total	SM 18-21 5310C (00)
Perchlorate	EPA 314.0
	EPA 331.0

Drinking Water Non-Metals

Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. CHRISTOPHER WAKEFIELD
ALPHA ANALYTICAL
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Drinking Water Non-Metals

Color	SM 18-21 2120B (01)
Cyanide, Total	SM 18-21 4500-CN E (98)
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 18-21 4500-F C (97)
Hydrogen Ion (pH)	SM 18-21 4500-H B (00)
Nitrate (as N)	SM 18-21 4500-NO3 F (00)
Nitrite (as N)	SM 18-21 4500-NO3 F (00)
Solids, Total Dissolved	SM 18-21 2540C (97)
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

Drinking Water Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Microextractables

1,2-Dibromo-3-chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2

Volatile Aromatics

1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2

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Volatile Halocarbons

1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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Acrylates

Acrolein (Propenal)

EPA 624
EPA 8260B
EPA 624
EPA 8260B

Acrylonitrile

Amines

2-Nitroaniline

EPA 8270C

3-Nitroaniline

EPA 8270C

4-Chloroaniline

EPA 8270C

4-Nitroaniline

EPA 8270C

Carbazole

EPA 8270C

Pyridine

EPA 625
EPA 8270C

Bacteriology

Coliform, Fecal

SM 18-20 9221E (99)
SM 18-20 9222D (97)

Coliform, Total

SM 18-20 9221B (99)
SM 18-20 9222B (97)

Standard Plate Count

SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine

EPA 625
EPA 8270C
EPA 625
EPA 8270C

Benzidine

Chlorinated Hydrocarbon Pesticides

4,4'-DDD

EPA 608
EPA 8081A

Chlorinated Hydrocarbon Pesticides

4,4'-DDE

EPA 608
EPA 8081A

4,4'-DDT

EPA 608
EPA 8081A

Aldrin

EPA 608
EPA 8081A

alpha-BHC

EPA 608
EPA 8081A

alpha-Chlordane

EPA 8081A
EPA 608

beta-BHC

EPA 8081A
EPA 608

Chlordane Total

EPA 8081A
EPA 608

delta-BHC

EPA 8081A
EPA 608

Dieldrin

EPA 8081A
EPA 608

Endosulfan I

EPA 8081A
EPA 608

Endosulfan II

EPA 8081A
EPA 608

Endosulfan sulfate

EPA 8081A
EPA 608

Endrin

EPA 8081A
EPA 608

Endrin aldehyde

EPA 8081A
EPA 608

Endrin Ketone

EPA 8081A

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Chlorinated Hydrocarbon Pesticides

gamma-Chlordane	EPA 8081A
Heptachlor	EPA 808
	EPA 8081A
Heptachlor epoxide	EPA 608
	EPA 8081A
Lindane	EPA 608
	EPA 8081A
Methoxychlor	EPA 608
	EPA 8081A
Toxaphene	EPA 608
	EPA 8081A

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260B
1,2,4,5-Tetrachlorobenzene	EPA 8270C
1,2,4-Trichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
2-Chloronaphthalene	EPA 625
	EPA 8270C
Hexachlorobenzene	EPA 625
	EPA 8270C
Hexachlorobutadiene	EPA 625
	EPA 8260B
	EPA 8270C
Hexachlorocyclopentadiene	EPA 625
	EPA 8270C
Hexachloroethane	EPA 625
	EPA 8270C

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A

Demand

Carbonaceous BOD	SM 18-20 5210B (01)
Chemical Oxygen Demand	EPA 410.4 Rev. 2.0
	SM 18-20 5220D (97)

Fuel Oxygenates

Methyl tert-butyl ether	EPA 8260B
tert-Butyl alcohol	EPA 8260B

Haloethers

4-Bromophenylphenyl ether	EPA 625
	EPA 8270C
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 625
	EPA 8270C
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270C
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270C

Microextractables

1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B

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Mineral		Nitroaromatics and Isophorone	
Addity	SM 18-20 2310B.4a (97)	Isophorone	EPA 8270C
Alkalinity	SM 18-21 2320B (97)	Methyl-2,4,6-trinitrophenylnitramine	EPA 8330
Calcium Hardness	EPA 200.7 Rev. 4.4	Nitrobenzene	EPA 625
Chloride	EPA 300.0 Rev. 2.1		EPA 8270C
	LACHAT 10-117-07-1 A or B		EPA 8330
Fluoride, Total	SM 18-20 4500-Cl- E (97)	Octahydro-tetranitro-tetrazocine	EPA 8330
	EPA 300.0 Rev. 2.1		
	SM 18-21 4500-F C (97)	Nitrosoamines	
Hardness, Total	EPA 200.7 Rev. 4.4	N-Nitrosodimethylamine	EPA 625
Sulfate (as SO4)	EPA 300.0 Rev. 2.1		EPA 8270C
	SM 15 426 C	N-Nitrosodi-n-propylamine	EPA 625
			EPA 8270C
		N-Nitrosodiphenylamine	EPA 625
			EPA 8270C
Nitroaromatics and Isophorone		Nutrient	
1,3,5-Trinitrobenzene	EPA 8330	Ammonia (as N)	EPA 350.1 Rev. 2.0
1,3-Dinitrobenzene	EPA 8330		LACHAT 10-107-06-1-B
2,4,6-Trinitrotoluene	EPA 8330		SM 18 4500-NH3 H
2,4-Dinitrotoluene	EPA 625		EPA 351.1 Rev. 1978
	EPA 8270C		LACHAT 10-107-06-2
	EPA 8330		EPA 300.0 Rev. 2.1
2,6-Dinitrotoluene	EPA 625		EPA 353.2 Rev. 2.0
	EPA 8270C		LACHAT 10-107-04-1-C
	EPA 8330		SM 18-21 4500-NO3 F (00)
2-Amino-4,6-dinitrotoluene	EPA 8330		SM 18-21 4500-NO2 B (00)
2-Nitrotoluene	EPA 8330		SM 18-21 4500-P E
3-Nitrotoluene	EPA 8330		SM 18-21 4500-P E
4-Amino-2,6-dinitrotoluene	EPA 8330		
4-Nitrotoluene	EPA 8330		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	EPA 8330		
Isophorone	EPA 625		

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
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Organophosphate Pesticides

Atrazine EPA 8270C

Phthalate Esters

Benzyl butyl phthalate EPA 625
EPA 8270C

Bis(2-ethylhexyl) phthalate EPA 625
EPA 8270C

Diethyl phthalate EPA 625
EPA 8270C

Dimethyl phthalate EPA 625
EPA 8270C

Di-n-butyl phthalate EPA 625
EPA 8270C

Di-n-octyl phthalate EPA 625
EPA 8270C

Polychlorinated Biphenyls

PCB-1016 EPA 608
EPA 8082

PCB-1221 EPA 608
EPA 8082

PCB-1232 EPA 608
EPA 8082

PCB-1242 EPA 608
EPA 8082

PCB-1248 EPA 608
EPA 8082

PCB-1254 EPA 608
EPA 8082

Polychlorinated Biphenyls

PCB-1260 EPA 608

EPA 8082

PCB-1262 EPA 8082

PCB-1268 EPA 8082

Polynuclear Aromatics

Acenaphthene EPA 625
EPA 8270C

Acenaphthylene EPA 625

EPA 8270C

Anthracene EPA 625

EPA 8270C

Benzo(a)anthracene EPA 625

EPA 8270C

Benzo(a)pyrene EPA 625

EPA 8270C

Benzo(b)fluoranthene EPA 625

EPA 8270C

Benzo(ghi)perylene EPA 625

EPA 8270C

Benzo(k)fluoranthene EPA 625

EPA 8270C

Chrysene EPA 625

EPA 8270C

Dibenzo(a,h)anthracene EPA 625

EPA 8270C

Fluoranthene EPA 625

EPA 8270C

Fluorene EPA 625

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Polynuclear Aromatics

Fluorene	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 625
	EPA 8270C
Naphthalene	EPA 625
	EPA 8270C
Phenanthrene	EPA 625
	EPA 8270C
Pyrene	EPA 625
	EPA 8270C

Priority Pollutant Phenols

4-Chloro-3-methylphenol	EPA 8270C
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 625
	EPA 8270C
Cresols, Total	EPA 8270C
Pentachlorophenol	EPA 625
	EPA 8270C
Phenol	EPA 625
	EPA 8270C

Priority Pollutant Phenols

2,4,5-Trichlorophenol	EPA 625
	EPA 8270C
2,4,6-Trichlorophenol	EPA 625
	EPA 8270C
2,4-Dichlorophenol	EPA 625
	EPA 8270C
2,4-Dimethylphenol	EPA 625
	EPA 8270C
2,4-Dinitrophenol	EPA 625
	EPA 8270C
2-Chlorophenol	EPA 625
	EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 625
	EPA 8270C
2-Methylphenol	EPA 8270C
2-Nitrophenol	EPA 625
	EPA 8270C
4-Chloro-3-methylphenol	EPA 625

Purgeable Aromatics

1,2-Dichlorobenzene	EPA 624
	EPA 625
	EPA 8021B
	EPA 8260B
	EPA 8270C
1,3-Dichlorobenzene	EPA 624
	EPA 625
	EPA 8021B
	EPA 8260B
	EPA 8270C
1,4-Dichlorobenzene	EPA 624
	EPA 625
	EPA 8021B
	EPA 8260B
	EPA 8270C
Benzene	EPA 624
	EPA 8021B
	EPA 8260B

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Purgeable Aromatics

Chlorobenzene	EPA 624 EPA 8260B
Ethyl benzene	EPA 624 EPA 8021B EPA 8260B
Isopropylbenzene	EPA 8260B
Styrene	EPA 8260B
Toluene	EPA 624 EPA 8021B EPA 8260B
Total Xylenes	EPA 624 EPA 8021B EPA 8260B

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA 624 EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 624 EPA 8260B
1,1,2-Trichloroethane	EPA 624 EPA 8260B
1,1,2-Trifluoro-1,2,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 624 EPA 8260B
1,1-Dichloroethene	EPA 624 EPA 8260B
1,2-Dichloroethane	EPA 624 EPA 8260B
1,2-Dichloropropane	EPA 824

Purgeable Halocarbons

1,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 624 EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 624 EPA 8260B
Bromoform	EPA 624 EPA 8260B
Bromomethane	EPA 624 EPA 8260B
Carbon tetrachloride	EPA 624 EPA 8260B
Chloroethane	EPA 624 EPA 8260B
Chloroform	EPA 624 EPA 8260B
Chloromethane	EPA 624 EPA 8260B
cis-1,2-Dichloroethane	EPA 8260B
cis-1,3-Dichloropropene	EPA 624 EPA 8260B
Dibromochloromethane	EPA 624 EPA 8260B
Dichlorodifluoromethane	EPA 624 EPA 8260B
Methylene chloride	EPA 624 EPA 8260B
Tetrachloroethene	EPA 624

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Purgeable Halocarbons

Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 824
	EPA 8260B
trans-1,3-Dichloropropene	EPA 824
	EPA 8260B
Trichloroethene	EPA 824
	EPA 8260B
Trichlorofluoromethane	EPA 824
	EPA 8260B
Vinyl chloride	EPA 824
	EPA 8260B

Purgeable Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Carbon Disulfide	EPA 8260B
Cyclohexane	EPA 8260B
Methyl acetate	EPA 8260B
Vinyl acetate	EPA 8260B

Residue

Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-20 2540D (97)

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270C
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Semi-Volatile Organics

2-Methylnaphthalene	EPA 8270C
Acetophenone	EPA 8270C
Benzaldehyde	EPA 8270C
Benzoic Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Caprolactam	EPA 8270C
Dibenzofuran	EPA 8270C
Methyl cyclohexane	EPA 8260B

Wastewater Metals I

Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Iron, Total	EPA 200.7 Rev. 4.4

Serial No.: 39216

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NELAP Recognized

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. CHRISTOPHER WAKEFIELD
ALPHA ANALYTICAL
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Wastewater Metals I

Iron, Total
Lead, Total

EPA 6010B
EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Magnesium, Total

EPA 200.7 Rev. 4.4
EPA 6010B

Manganese, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Nickel, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Potassium, Total

EPA 200.7 Rev. 4.4
EPA 6010B

Silver, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Sodium, Total

EPA 200.7 Rev. 4.4
EPA 6010B

Wastewater Metals II

Aluminum, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Wastewater Metals II

Antimony, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Arsenic, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Beryllium, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Chromium VI

EPA 7196A
SM 18-19 3500-Cr D
EPA 245.1 Rev. 3.0
EPA 245.2 Rev. 1974
EPA 7470A

Mercury, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Selenium, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B
EPA 6020

Vanadium, Total

EPA 200.7 Rev. 4.4
EPA 200.8 Rev. 5.4
EPA 6010B

Zinc, Total

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Wastewater Metals II		Wastewater Miscellaneous		
Zinc, Total	EPA 6020	Organic Carbon, Total	SM 18-21 5310C (00)	
Wastewater Metals III		Phenols	EPA 420.1 Rev. 1978	
			SM 14 510C	
	Cobalt, Total	EPA 200.7 Rev. 4.4	Silica, Dissolved	EPA 200.7 Rev. 4.4
		EPA 200.8 Rev. 5.4		EPA 6010B
	EPA 6010B			
	EPA 6020	Specific Conductance	EPA 120.1 Rev. 1882	
Molybdenum, Total	EPA 200.7 Rev. 4.4		SM 18-21 2510B (97)	
	EPA 200.8 Rev. 5.4	Sulfide (as S)	EPA 376.2	
	EPA 6010B		SM 18-20 4500-S'D (00)	
	EPA 6020	Surfactant (MBAS)	SM 18-21 5540C (00)	
Thallium, Total	EPA 200.7 Rev. 4.4	Sample Preparation Methods		
	EPA 200.8 Rev. 5.4			
	EPA 6010B			
	EPA 6020			
Tin, Total	EPA 200.7 Rev. 4.4		EPA 3005A	
	EPA 6010B		EPA 3015	
			EPA 3510C	
			EPA 5030B	
			EPA 9010B	
Titanium, Total	EPA 200.7 Rev. 4.4		EPA 9030B	
			SM 18-20 4500-NH3 B (97)	
Wastewater Miscellaneous				
Boron, Total	EPA 200.7 Rev. 4.4			
	EPA 6010B			
Bromide	EPA 300.0 Rev. 2.1			
Color	SM 18-21 2120B (01)			
Cyanide, Total	LACHAT 10-204-00-1-A			
	SM 18-21 4500-CN E (99)			
Hydrogen Ion (pH)	EPA 9040B			
	SM 18-21 4500-H B (00)			
Oil & Grease Total Recoverable (HEM)	EPA 1664A			

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved subcategories and/or analytes are listed below:

Nutrient

Nitrite (as N)

LACHAT 10-107-04-1-C

Serial No.: 39217

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B

Amines

1,2-Diphenylhydrazine	EPA 8270C
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
Carbazole	EPA 8270C

Benzidines

3,3'-Dichlorobenzidine	EPA 8270C
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Characteristic Testing

Corrosivity	EPA 9040B EPA 9045C
Ignitability	EPA 1010 EPA 1030
Reactivity	SW-846 Ch7 Sec. 7.3

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081A
4,4'-DDE	EPA 8081A
4,4'-DDT	EPA 8081A
Aldrin	EPA 8081A
alpha-BHC	EPA 8081A
alpha-Chlordane	EPA 8081A
Atrazine	EPA 8270C
beta-BHC	EPA 8081A

Chlorinated Hydrocarbon Pesticides

Chlordane Total	EPA 8081A
delta-BHC	EPA 8081A
Dieldrin	EPA 8081A
Endosulfan I	EPA 8081A
Endosulfan II	EPA 8081A
Endosulfan sulfate	EPA 8081A
Endrin	EPA 8081A
Endrin aldehyde	EPA 8081A
Endrin Ketone	EPA 8081A
gamma-Chlordane	EPA 8081A
Heptachlor	EPA 8081A
Heptachlor epoxide	EPA 8081A
Lindane	EPA 8081A
Methoxychlor	EPA 8081A
Toxaphene	EPA 8081A

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270C
2-Chloronaphthalene	EPA 8270C
Hexachlorobenzene	EPA 8270C
Hexachlorobutadiene	EPA 8270C
Hexachlorocyclopentadiene	EPA 8270C
Hexachloroethane	EPA 8270C

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Haloethers

4-Bromophenylphenyl ether	EPA 8270C
4-Chlorophenylphenyl ether	EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 8270C
Bis(2-chloroethoxy)methane	EPA 8270C
Bis(2-chloroethyl)ether	EPA 8270C

Metals I

Barium, Total	EPA 6010B
Cadmium, Total	EPA 6010B
Calcium, Total	EPA 6010B
Chromium, Total	EPA 6010B
Copper, Total	EPA 6010B
Iron, Total	EPA 6010B
Lead, Total	EPA 6010B
Magnesium, Total	EPA 6010B
Manganese, Total	EPA 6010B
Nickel, Total	EPA 6010B
Potassium, Total	EPA 6010B
Silver, Total	EPA 6010B
Sodium, Total	EPA 6010B

Metals II

Aluminum, Total	EPA 6010B
Antimony, Total	EPA 6010B
Arsenic, Total	EPA 6010B
Beryllium, Total	EPA 6010B
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471A
Selenium, Total	EPA 6010B

Metals II

Vanadium, Total	EPA 6010B
Zinc, Total	EPA 6010B

Metals III

Cobalt, Total	EPA 6010B
Molybdenum, Total	EPA 6010B
Thallium, Total	EPA 6010B
Tin, Total	EPA 6010B

Miscellaneous

Boron, Total	EPA 6010B
Cyanide, Total	EPA 9012A
	EPA 9014
Hydrogen Ion (pH)	EPA 9040B
	EPA 9045C
Lead in Paint	EPA 6010B
Phenols	EPA 9066
Specific Conductance	EPA 9050

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8330
1,3-Dinitrobenzene	EPA 8330
2,4,6-Trinitrotoluene	EPA 8330
2,4-Dinitrotoluene	EPA 8270C
	EPA 8330
2,6-Dinitrotoluene	EPA 8270C
	EPA 8330
2-Amino-4,6-dinitrotoluene	EPA 8330
2-Nitrotoluene	EPA 8330

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Nitroaromatics and Isophorone

3-Nitrotoluene	EPA 8330
4-Amino-2,6-dinitrotoluene	EPA 8330
4-Nitrotoluene	EPA 8330
Hexahydro-1,3,5-trinitro-1,3,5-triazine	EPA 8330
Isophorone	EPA 8270C
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330
Nitrobenzene	EPA 8270C
	EPA 8330
Octahydro-tetranitro-tetrazocine	EPA 8330

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270C
N-Nitrosodi-n-propylamine	EPA 8270C
N-Nitrosodiphenylamine	EPA 8270C

Phthalate Esters

Benzyl butyl phthalate	EPA 8270C
Bis(2-ethylhexyl) phthalate	EPA 8270C
Diethyl phthalate	EPA 8270C
Dimethyl phthalate	EPA 8270C
Di-n-butyl phthalate	EPA 8270C
Di-n-octyl phthalate	EPA 8270C

Polychlorinated Biphenyls

PCB-1016	EPA 8082
PCB-1221	EPA 8082
PCB-1232	EPA 8082
PCB-1242	EPA 8082
PCB-1248	EPA 8082

Polychlorinated Biphenyls

PCB-1254	EPA 8082
PCB-1260	EPA 8082
PCB-1262	EPA 8082
PCB-1268	EPA 8082

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270C
Acenaphthylene	EPA 8270C
Anthracene	EPA 8270C
Benzo(a)anthracene	EPA 8270C
Benzo(a)pyrene	EPA 8270C
Benzo(b)fluoranthene	EPA 8270C
Benzo(g,h,i)perylene	EPA 8270C
Benzo(k)fluoranthene	EPA 8270C
Chrysene	EPA 8270C
Dibenzo(a,h)anthracene	EPA 8270C
Fluoranthene	EPA 8270C
Fluorene	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 8270C
Naphthalene	EPA 8270C
Phenanthrene	EPA 8270C
Pyrene	EPA 8270C

Priority Pollutant Phenols

2,4,5-Trichlorophenol	EPA 8270C
2,4,6-Trichlorophenol	EPA 8270C
2,4-Dichlorophenol	EPA 8270C
2,4-Dimethylphenol	EPA 8270C
2,4-Dinitrophenol	EPA 8270C

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Priority Pollutant Phenols

2-Chlorophenol	EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 8270C
2-Methylphenol	EPA 8270C
2-Nitrophenol	EPA 8270C
4-Chloro-3-methylphenol	EPA 8270C
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 8270C
Pentachlorophenol	EPA 8270C
Phenol	EPA 8270C

Purgeable Aromatics

1,2-Dichlorobenzene	EPA 8021B
	EPA 8260B
1,3-Dichlorobenzene	EPA 8021B
	EPA 8260B
1,4-Dichlorobenzene	EPA 8021B
	EPA 8260B
Benzene	EPA 8021B
	EPA 8260B
Chlorobenzene	EPA 8021B
	EPA 8260B
Ethyl benzene	EPA 8021B
	EPA 8260B
Isopropylbenzene	EPA 8260B
Styrene	EPA 8260B
Toluene	EPA 8021B
	EPA 8260B
Total Xylenes	EPA 8021B
	EPA 8260B

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1,2-Trifluoro-1,2,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform	EPA 8260B
Bromomethane	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chloroethane	EPA 8260B
Chloroform	EPA 8260B
Chloromethane	EPA 8260B
cis-1,2-Dichloroethane	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethane	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
Trichloroethane	EPA 8260B
Trichlorofluoromethane	EPA 8260B

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Purgeable Halocarbons

Vinyl chloride EPA 8260B

Purgeable Organics

1,4-Dioxane EPA 8260B
2-Butanone (Methylethyl ketone) EPA 8260B
2-Hexanone EPA 8260B
4-Methyl-2-Pentanone EPA 8260B
Acetone EPA 8260B
Carbon Disulfide EPA 8260B
Cyclohexane EPA 8260B
Methyl acetate EPA 8260B
Methyl tert-butyl ether EPA 8260B
tert-Butyl alcohol EPA 8260B
Vinyl acetate EPA 8260B

Semi-Volatile Organics

1,1'-Biphenyl EPA 8270C
2-Methylnaphthalene EPA 8270C
Acetophenone EPA 8270C
Benzaldehyde EPA 8270C
Benzoic Acid EPA 8270C
Benzyl alcohol EPA 8270C
Caprolactam EPA 8270C
Dibenzofuran EPA 8270C
Methyl cyclohexane EPA 8260B

Sample Preparation Methods

EPA 1311
EPA 3005A

Sample Preparation Methods

EPA 3050B
EPA 3051
EPA 3540C
EPA 3545
EPA 3580
EPA 5030B
EPA 5035
EPA 9010B
EPA 9030B

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Polynuclear Aromatics

Benzo(a)pyrene
Naphthalene

EPA TO-13
EPA TO-13

Serial No.: 39219

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