LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

August 2, 2011

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

RE: Site Management Plan Annual Review – June 2011
West 42nd Street – River Place I & II
West 41st – West 42nd Streets
New York, New York 110036
NYSDEC BCP Site No. C231012 & C231024
Langan Project No.: 170040901

Dear Mr. MacNeal:

This letter documents ongoing compliance with the July 2006 Site Management Plan (SMP) that was prepared in accordance with the New York State Brownfields Cleanup Program (BCP) for the River Place I & II properties (the "Site"). The Site is located between West 41st Street and West 42nd Street and 11th and 12th Avenues on the west side of Manhattan, New York. Construction activities have been completed at both portions of the Site (River Place I & II). The last review letter was submitted to you on August 4, 2010.

The following is an update on the status of the requirements of the SMP for the Site including: 1) institutional control/engineering controls (IC/EC); 2) groundwater monitoring; and 3) indoor air monitoring.

Institutional Control/Engineering Controls (IC/EC) Inspection

Institutional and engineering controls at the Site include a cover system, a vapor/water barrier and an environmental easement as described below. The signed and completed New York State Department of Environmental Conservation IC/EC Certification Form is provided as Attachment A.

Cover System – The site cover system includes the building foundation slabs, asphalt parking lots, concrete walkways, and top soil used in landscaped areas. The construction of the cover system is complete. Both building slabs and the park portion between the buildings were inspected by Langan on June 14, 2011 and were observed to be intact. Photographs of site cover are provided as Attachment B.

Inspection of Vapor/Water Barrier – The vapor/water barrier at River Place II was completed in October 2007 and a report documenting the installation was provided to NYSDEC. We inspected the basement and sub cellar areas of River Place II on June 14,

2011 during the inspection of the cover system. There were no new penetrations observed through the slab and vapor barrier.

Environmental Easement – Groundwater is not used for any purpose. Land use remains as multi-story residential.

Quarterly Groundwater Monitoring

Quarterly groundwater monitoring was required for the first two years following completion of the remedial construction, as specified in the SMP. On February 28 and March 7, 2009, two groundwater monitoring wells were installed in the future park area between RP I and RP II. For this reporting period, Langan performed the third and fourth 2010 quarterly monitoring events on September 8 and December 15, 2010, respectively. The 2010 quarterly groundwater monitoring reports are included as Attachment C and D. This concludes the two year quarterly groundwater sampling program required by the SMP.

Annual Indoor Air Monitoring

The SMP requires annual indoor air sampling in River Place I for three years. In compliance with the SMP, GCI Environmental Advisory, Inc. conducted indoor air monitoring on December 22, 2011. The Ambient/Indoor Air Monitoring Assessment Survey report is provided as Attachment E. The report concludes that the limited indoor air chemicals detected are attributed to general cleaning products and building occupation and not the result of sub-slab vapor intrusion. One additional round of indoor air sampling, as required by the SMP, remains to be completed. The final round will be completed during the 2011/2012 heating season.

Closing

The SMP is being implemented in accordance with the schedules discussed above. Should you have any questions, please contact me at 212-479-5404.

Kindest Regards,
Langan Engineering & Environmental Services, P.C.

Joel B. Landes, P.E.
Senior Associate

Enclosures:

Attachment A	NYSDEC Institutional and Engineering Controls Certification Form
Attachment B	Site Cover Photographs
Attachment C	Quarterly Groundwater Monitoring Report-Third Quarter 2010
Attachment D	Quarterly Groundwater Monitoring Report-Fourth Quarter 2010
Attachment E	GCI Indoor Air Monitoring Report – Dated January 2011

Cc: William R. Dacunto – River Place 2 LLC
Richard Rienzo - Con Edison

ATTACHMENT A
NYSDEC Institutional and Engineering Controls Certification Form

Enclosure 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C231024**

Site Name CE - W 42nd St. - River Place I

Site Address: 640 W 42nd Street Zip Code: 10036
City/Town: New York
County: New York
Site Acreage: 2.7

Reporting Period: August 06, 2010 to August 06, 2011

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C231024

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
10890001	River Place I, LLC	Ground Water Use Restriction Landuse Restriction Site Management Plan Soil Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
10890001	Subsurface Barriers

Control Description for Site No. C231024

Parcel: 10890001

Annual reports on quarterly groundwater monitoring and annual indoor air monitoring events are required as well as an annual certifcation that the ground cover is intact as well as the continued effectiveness of the newly-installed vapor barrier and that the gourndwater restrictions are still in force.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C231024

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I WILLIAM R DACUNTO (print name) at 7 WTC NY NY 10007 (print business address).

am certifying as VICE PRESIDENT OPERATIONS (Owner or Remedial Party)
SILVERSTEIN PROPERTIES INC AS MANAGING AGENTS FOR RIVER PLACE I HOLDINGS, LLC

for the Site named in the Site Details Section of this form.

Signature of Owner or Remedial Party Rendering Certification — Date: 7/12/11

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joel B Landes (print name) at 21 Penn Plaza, NY NY 10001 (print business address).

am certifying as a for the Owner-River Place I LLC (Owner or Remedial Party)

STATE OF NEW YORK
JOEL B. LANDES
LICENSED PROFESSIONAL ENGINEER
076348

Signature of , for the Owner or Remedial Party, Rendering Certification — Stamp (Required for PE) — Date: 8/1/2011

Enclosure 2

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)

1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- Where the only control is an Institutional Control on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner.

- Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 1
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C231012**

Site Name CE - W 42nd St. - River Place II

Site Address: West 41st - West 42nd Sts. Zip Code: 10036
City/Town: New York
County: New York
Site Acreage: 1.1

Reporting Period: August 06, 2010 to August 06, 2011

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C231012 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
10890003	River Place 2 LLC/C	Ground Water Use Restriction Landuse Restriction Site Management Plan Soil Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
10890003	Cover System Subsurface Barriers Vapor Mitigation

Control Description for Site No. C231012

Parcel: 10890003

Annual reports on quarterly groundwater monitoring and annual indoor air monitoring events are required as well as an annual certifcation that the ground cover is intact as well as the continued effectiveness of the newly-installed vapor barrier and that the gourndwater restrictions are still in force.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

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   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

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Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C231012

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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I WILLIAM R DACUNTO (print name) at 7 WTC NY NY 10007 (print business address).

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SILVERSTEIN PROPERTIES, INC AS MANAGING AGENTS FOR RIVER PLACE II LLC

for the Site named in the Site Details Section of this form.

William R Dacunto
Signature of Owner or Remedial Party Rendering Certification

7/12/11
Date

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joel B Landes (print name) at 21 Penn Plaza, NY NY 10001 (print business address).

am certifying as a for the River Place II LLC Owner (Owner or Remedial Party)

STATE OF NEW YORK
JOEL B. LANDES
076348
LICENSED PROFESSIONAL ENGINEER

Joel B Landes
Signature of , for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

8/11/2011
Date

Enclosure 2

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1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

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III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- Where the only control is an Institutional Control on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner.

- Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

ATTACHMENT B
Site Cover Photographs

Photograph No. 1: View of paved walkway/driveway area located between River Place II buildings (North and South Towers).

Photograph No. 2: View of hallway floor in lower level of River Place II.

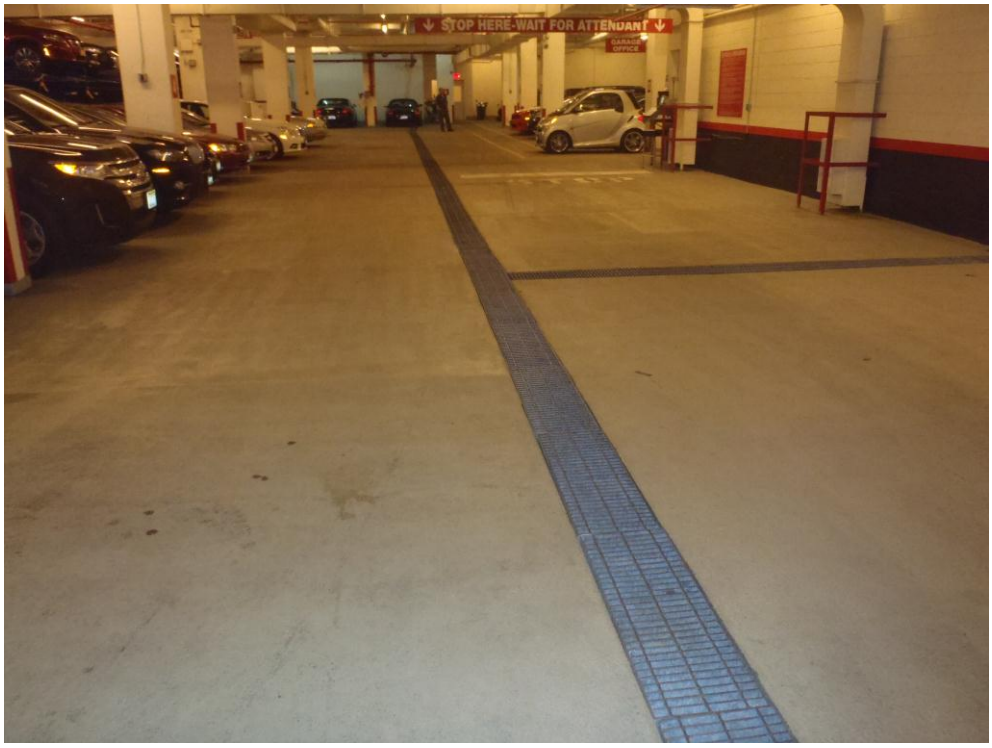
Photograph No. 3: View of hallway floor in lower level of River Place II.

Photograph No. 4: View of surface cover inside the boiler room of River Place II.

Photograph No. 5: View of surface cover inside laundry room of River Place II.

Photograph No. 6: View of cellar floor in the pump room of River Place II.

Photograph No. 7: View of cellar floor in the gas meter room of River Place II.



Photograph No. 8: View of basement parking ramp at River Place II.

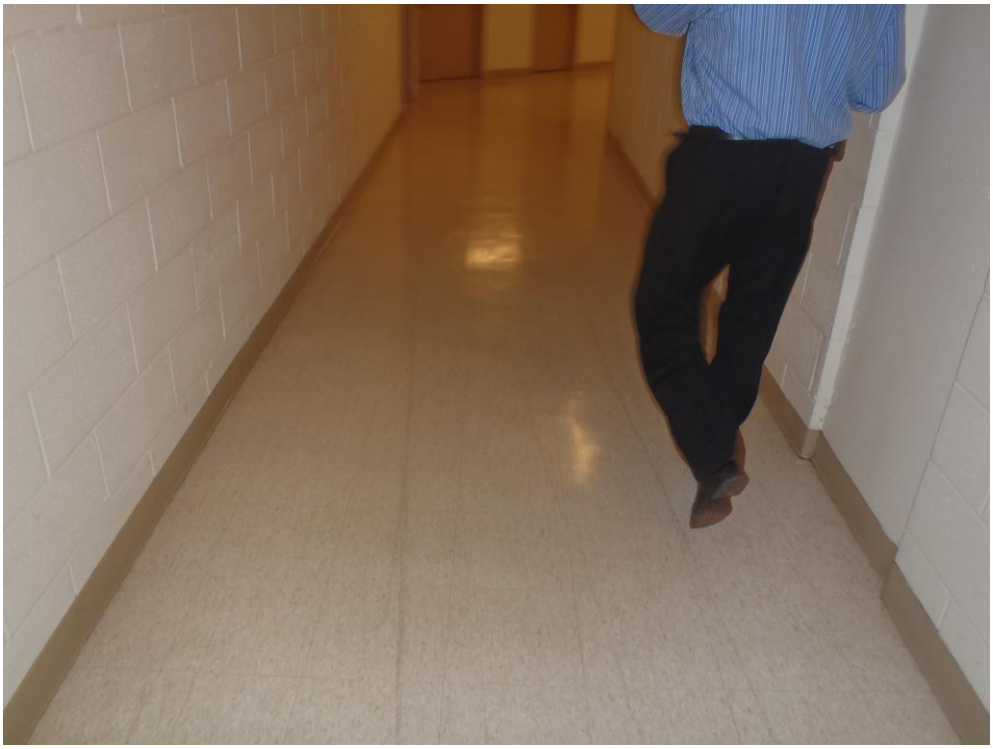
Photograph No. 9: View of paved walkway area located between River Place I and River Place II on West 42nd Street.

Photograph No. 10: View of landscaped area between River Place I and II buildings.

Photograph No. 11: View of landscaped area and capped driveway/walkway around the playground near River Place I building.

Photograph No. 12: View of capped driveway/walkway area located in front of the River Place I building entrance.

Photograph No. 13: View of concrete floor in lowest level of River Place I.



Photograph No. 14: View of hallway floor in lower level of River Place I.

Photograph No. 15: View of surface cover inside restaurant on ground floor of River Place I.

Photograph No. 16: View of concrete floor in mechanical room of River Place I.

Photograph No. 17: View of surface cover inside bowling alley on ground floor of River Place I.

Photograph No. 18: View of paved walkway area located in front of the River Place I on West 42nd Street.

ATTACHMENT C
Quarterly Groundwater Monitoring Report – Third Quarter 2010

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

David T. Gockel, P.E., P.P.
George P. Kelley, P.E.
George E. Derrick, P.E.
Michael A. Semeraro, Jr., P.E.
Nicholas De Rose, P.G.
Andrew J. Ciancia, P.E.
George E. Leventis, P.E.
Rudolph P. Frizzi, P.E.
Ronald A. Fuerst, C.L.A.
Colleen Costello, P.G.
Cristina M. González, P.E.
Gerald J. Zambrella, C.E.M.

Gregory L. Biesiadecki, P.E.
Marc Gallagher, P.E.
Donald J. Hodson, P.E.
Joel B. Landes, P.E.
Alan R. Poeppel, P.E.

October 1, 2010

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 2010
River Place I & II
West 42nd Street, New York, New York
BCP Site No. C231024, C231012
Langan Project No.: 170040901

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. A Final Engineering Report (FER) for the site was approved by the New York Stated Department of Environmental Conservation (NYSDEC) and a Certificate of Completion (COC) was issued on June 19, 2007. A Site Management Plan (SMP) dated July 2006 was approved by NYSDEC.

In accordance with the SMP, groundwater monitoring began on March 16, 2009 and was conducted quarterly thereafter on June 17, 2009, September 18, 2009, January 7, 2010, March 1, 2010 and July 14, 2010. This report summarizes the most recent results from sampling conducted on September 8, 2010.

Third Quarter 2010 Groundwater Sampling

On September 8, 2010, Langan sampled wells MW-N2 and MW-S2 to represent the Third Quarter 2010 sampling event. During sampling, Langan visually inspected the monitoring wells for evidence of tampering or damage, and measured the depth to groundwater. Synaptic water level 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 A of this report.

Prior to collecting groundwater samples, MW-N2 and MW-S2 were purged using low-flow purge and sample techniques. The wells were 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 A. Prior to sampling, the wells were allowed to recover to approximately 80% or more of the static water level.

MW-N2 and MW-S2 were purged until physical and chemical parameters stabilized. Approximately 5 and 8 gallons were purged from each monitoring well, respectively. After purging, samples MW-N2-8-9-10 and MW-S2-8-9-10 were collected using a Waterra pump and dedicated tubing.

The groundwater samples, MW-N2-8-9-10 and MW-S2-8-9-10 were 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 samples were 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

During this sampling event no free product was observed in MW-N2 and MW-S2. The wells were observed to be in good condition.

Groundwater Analytical Results

Analytical results for the Third Quarter 2010 monitoring event that exceeded the NYSDEC TOGS 1.1.1 AWQS Class GA Standards are summarized below.

MW-N2	
VOCs[1]	
• benzene	• toluene
• p/m-xylene	• naphthalene
• o-xylene	
SVOCs[1]	
• acenaphthene	• 2,4-dimethylphenol
• napthalene	• phenol

MW-S2	
VOCs[1]	
• benzene	• ethylbenzene
• p/m-xylene	• naphthalene
• o-xylene	• isopropylbenzene
• 1,2,4-trimethylbenzene	
SVOCs[1]	
• acenapthene	• benzo(b)flouranthene
• napthalene	

Inorganics			**Inorganics**	
• iron	• magnesium		• iron	• magnesium
• manganese	• cyanide		• manganese	• cyanide
• sodium			• sodium	• lead

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.

Analytical results for the First Quarter 2009 through Third Quarter 2010 sampling rounds are summarized in Tables 1 through 3 and the laboratory analytical report for Third Quarter 2010 is included as Attachment B.

Please contact us 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	Groundwater Sampling Forms
Attachment B	Laboratory Analytical Reports, Chain-of-Custody and Certifications

cc:
Richard Rienzo- Con Edison
William R. Dacunto- River Place II LLC
Jason Hayes – Langan

TABLES

Table 1
VOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well													
		1st Quarter 2009		2nd Quarter 2009		3rd Quarter 2009*		4th Quarter 2009**		1st Quarter 2010		2nd Quarter 2010		3rd Quarter 2010	
SAMPLING DATE **LANGAN SAMPLE ID** **LAB SAMPLE ID**	**NYSDEC TOGS 1.1.1 AWQS**	**3/16/2009** **MW-N-3-16-09** **L0903143-01**		**6/17/2009** **MW-N-6-17-09** **L0908040-01**		**9/18/2009** **MW-N-9-18-09** **L0913185-01**		**1/7/2010** **MW-N2-1-07-10** **L1000282-01**		**3/1/2010** **MW-N2-3-01-10** **L1003006-01**		**6/10/2010** **MW-N2-6-10-10** **L1008735-02**		**9/8/2010** **MW-N2-9-8-10** **L1013903-01**	
Volatile Organics by GC/MS (µg/L) **Westborough Lab**															
1,2,4-Trimethylbenzene	5	1200	U, D^{500}	1200	U, D^{500}	1200	U, D^{500}	1200	U	250	U, D^{100}	500	U, D^{200}	620	U, D^{250}
1,3,5-Trimethylbenzene	5	1200	U, D^{500}	1200	U, D^{500}	1200	U, D^{500}	1200	U	250	U, D^{100}	500	U, D^{200}	620	U, D^{250}
Benzene	1	**19000**	D^{500}	**17000**	D^{500}	**15000**	D^{500}	**2900**	D^{500}	**610**	D^{100}	**1100**		**2100**	D^{250}
Ethylbenzene	5	**1900**	D^{500}	**1900**	D^{500}	**1800**	D^{500}	**1400**	D^{500}	**170**	D^{100}	**410**		**810**	D^{250}
Isopropylbenzene	5	250	U, D^{500}	250	U, D^{500}	250	U, D^{500}	250	U	50	U, D^{100}	100	U, D^{200}	120	U, D^{250}
Methylene chloride	5	2500	U, D^{500}	2500	U, D^{500}	2500	U	2500	U	500	U, D^{100}	1000	U, D^{200}	1200	U, D^{250}
Naphthalene	10	**15000**	D^{500}	**18000**	D^{500}	**19000**	D^{500}	**22000**	D^{500}	**4200**	D^{100}	**5400**		**12000**	D^{250}
n-Butylbenzene	5	250	U, D^{500}	250	U, D^{500}	250	U	250	U	50	U, D^{100}	100	U, D^{200}	120	U, D^{250}
o-Xylene	5	**1400**	D^{500}	**1400**	D^{500}	**1200**	D^{500}	**1000**	D^{500}	**180**	D^{100}	**330**		**590**	D^{250}
p/m-Xylene	5	**3200**	D^{500}	**3100**	D^{500}	**2900**	D^{500}	**2200**	D^{500}	**330**	D^{100}	**600**		**1100**	D^{250}
p-Isopropyltoluene	5	250	U, D^{500}	250	U, D^{500}	250	U	250	U	50	U, D^{100}	100	U, D^{200}	120	U, D^{250}
Styrene	5	500	U, D^{500}	500	U, D^{500}	500	U	500	U	100	U, D^{100}	200	U, D^{200}	250	U, D^{250}
Toluene	5	**4200**	D^{500}	**4400**	D^{500}	**4100**	D^{500}	**740**	D^{500}	75	U, D^{100}	150	U, D^{200}	**290**	D^{250}

Notes:

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Table 1
VOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Southern Well*											
		1st Quarter 2009	1st Quarter 2009	2nd Quarter 2009	4th Quarter 2009**	1st Quarter 2010	2nd Quarter 2010	3rd Quarter 2010
SAMPLING DATE **LANGAN SAMPLE ID** **LAB SAMPLE ID**	**NYSDEC TOGS 1.1.1 AWQS**	**3/16/2009** **MW-S-3-16-09** **L0903143-02**	**3/16/2009** **DUP-3-16-09** **L0903143-03**	**6/17/2009** **MW-S-6-17-09** **L0908040-02**	**1/7/2010** **MW-S2-1-07-10** **L1000282-02**	**3/1/2010** **MW-S2-3-01-10** **L1003006-02**	**6/10/2010** **MW-S2-6-10-10** **L1008735-01**	**9/8/2010** **MW-S2-9-8-10** **L1013903-02**
Volatile Organics by GC/MS (µg/L) **Westborough Lab**			Duplicate of MW-N-3-16-09					
1,2,4-Trimethylbenzene	5	**76** D^{25}	1200 U, D^{500}	25 U, D^{10}	**280** D^{10}	**130** D^{50}	**180** D^{50}	**150** U, D^{50}
1,3,5-Trimethylbenzene	5	62 U, D^{25}	1200 U, D^{500}	25 U, D^{10}	**61** D^{10}	120 U, D^{50}	120 U, D^{50}	120 U, D^{50}
Benzene	1	**140** D^{25}	**19000** D^{500}	**170** D^{10}	**200** D^{10}	**75** D^{50}	**120** D^{50}	**110** D^{50}
Ethylbenzene	5	**160** D^{25}	**1900** D^{500}	**20** D^{10}	**710** D^{10}	**330** D^{50}	**590** D^{50}	**460** D^{50}
Isopropylbenzene	5	**35** D^{25}	250 U, D^{500}	**5.4** D^{10}	**64** D^{10}	**30** D^{50}	**61** D^{50}	**44** D^{50}
Methylene chloride	5	120 U, D^{25}	2500 U, D^{500}	50 U, D^{10}	**420** D^{10}	250 U, D^{50}	250 U, D^{50}	250 U, D^{50}
Naphthalene	10	**610** D^{25}	**15000** D^{500}	**350** D^{10}	**4900** D^{10}	**1800** D^{50}	**1700** D^{50}	**1900** D^{50}
n-Butylbenzene	5	12 U, D^{25}	250 U, D^{500}	5 U, D^{10}	**6.2** D^{10}	25 U, D^{50}	25 U, D^{50}	25 U, D^{50}
o-Xylene	5	**43** D^{25}	**1300** D^{500}	**16** D^{10}	**320** D^{10}	**110** D^{50}	**150** D^{50}	**70** D^{50}
p/m-Xylene	5	**50** D^{25}	**3100** D^{500}	**21** D^{10}	**410** D^{10}	**150** D^{50}	**150** D^{50}	**82** D^{50}
p-Isopropyltoluene	5	12 U, D^{25}	250 U, D^{500}	5 U, D^{10}	**11** D^{10}	25 U, D^{50}	25 U, D^{50}	25 U, D^{50}
Styrene	5	25 U, D^{25}	500 U, D^{500}	10 U, D^{10}	**40**	50 U, D^{50}	50 U, D^{50}	50 U, D^{50}
Toluene	5	19 U, D^{25}	**4000** D^{500}	**29** D^{10}	**180** D^{10}	**46** D^{50}	38 U, D^{50}	38 U, D^{50}

Notes:

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VOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Quality Control													
		1st Quarter 2009		1st Quarter 2009		2nd Quarter 2009		3rd Quarter 2009		4th Quarter 2009		1st Quarter 2010		2nd Quarter 2010		3rd Quarter 2010	
SAMPLING DATE **LANGAN SAMPLE ID** **LAB SAMPLE ID**	**NYSDEC TOGS 1.1.1 AWQS**	**3/16/2009** **FB-3-16-09** **L0903143-04**		**3/16/2009** **TRIP BLANK** **L0903143-05**		**6/17/2009** **TRIP BLANK** **L0908040-03**		**6/17/2009** **TRIP BLANK** **L0913185-02**		**1/7/2010** **TRIP BLANK** **L1000282-03**		**3/1/2010** **TRIP BLANK** **L1003006-03**		**6/10/2010** **TRIP BLANK** **L1008735-03**		**9/8/2010** **TRIP BLANK** **L1013903-03**	
Volatile Organics by GC/MS (µg/L) **Westborough Lab**																	
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	0.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	0.75	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	1	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	5	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	5	5	U	5	U	5	U	0.5	U	5	U	5	U	5	U	5	U
Naphthalene	10	2.5	U	2.5	U	2.5	U	1	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	5	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1	U
p/m-Xylene	5	1	U	1	U	1	U	0.5	U	1	U	1	U	1	U	1	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	0.75	U	0.75	U	0.75	U	2.5	U	0.75	U	0.75	U	0.75	U	0.75	U

Notes:

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Table 2
SVOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well													
		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		3rd Quarter 2010	
SAMPLING DATE **LANGAN SAMPLE ID** **LAB SAMPLE ID**	**NYSDEC TOGS 1.1.1 AWQS**	**3/16/2009** **MW-N-3-16-09** **L0903143-01**		**6/17/2009** **MW-N-6-17-09** **L0908040-01**		**9/18/2009** **MW-N-9-18-09** **L0913185-01**		**1/7/2010** **MW-N2-1-7-10** **L1000282-01**		**3/1/2010** **MW-N2-3-1-10** **L1003006-01**		**6/10/2010** **MW-N2-6-10-10** **L1008735-02**		**9/8/2010** **MW-N2-9-8-10** **L1013903-01**	
Semi-Volatile Organics (µg/L) **Westborough Lab**															
2,4-Dimethylphenol	50	**1800**	D^{50}	**830**	D^{5}	**1200**	D^{100}	**270**	D^{5}	500	U, D^{50}	29		**160**	
Acenaphthene	20	**120**	D^{20}	**95**	D^{40}	**99**	D^{50}	**61**	D^{200}	**65**	D^{50}	17		**97**	
Benzo(a)pyrene	0	**7.2**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	5	U	80	U
Benzo(b)fluoranthene	0.002	**8.4**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	7.2	D^{20}	80	U
Bis(2-Ethylhexyl)phthalate	5	24	U, D^{5}	26	U, D^{5}	**46**	D^{5}	25	U, D^{5}	250	U, D^{50}	5	U	5	U
Chrysene	0.002	**4.1**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	**4200**	R1, D^{400}	80	U
Fluorene	50	**56**	D^{20}	**59**	D^{40}	47	D^{50}	40	U, D^{200}	39	D^{50}	7.2	D^{20}	80	U
Naphthalene	10	**12000**	D^{400}	**8900**	D^{400}	**9400**	D^{1000}	**2200**	D^{200}	**2700**	D^{50}	8.9	D^{20}	**6900**	
Phenanthrene	50	**100**	D^{20}	**53**	D^{40}	**62**	D^{50}	40	D^{200}	**52**	D^{50}	**84**	D^{20}	80	U
Phenol	1	**120**	D^{5}	**61**	D^{5}	**87**	D^{5}	35	U, D^{5}	350	U, D^{50}	**17**		**27**	

Notes:

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** Monitoring wells MW-N and MW-S were destroyed due to construction activities. Monitoring wells MW-N2 and MW-S2 were installed in the approximate locations of MW-N and MW-S once construction was complete. New monitoring well locations are shown on Figure 2.

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D^{X} - Dillution factor of X

R1 - Analyte Results are from sample re-analysis

Table 2
SVOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Southern Well*												Quality Control	
		1st Quarter		1st Quarter		2nd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		3rd Quarter 2010		1st Quarter	
SAMPLING DATE **LANGAN SAMPLE ID** **LAB SAMPLE ID**	**NYSDEC TOGS 1.1.1 AWQS**	**3/16/2009** **MW-S-3-16-09** **L0903143-02**		**3/16/2009** **DUP-3-16-09** **L0903143-03**		**6/17/2009** **MW-S-6-17-09** **L0908040-02**		**1/7/2010** **MW-S2-1-7-10** **L0908040-02**		**3/1/2010** **MW-S2-3-1-10** **L1003006-02**		**6/10/2010** **MW-S2-6-10-10** **L1008735-01**		**9/8/2010** **MW-S2-9-8-10** **L1013903-02**		**3/16/2009** **FB-3-16-09** **L0903143-04**	
Semi-Volatile Organics (µg/L) **Westborough Lab**				Duplicate of MW-N-3-16-09													
2,4-Dimethylphenol	50	10	U	**1800**	D^{25}	10	U	10	U	500	U, D^{50}	10	U	10	U	9.6	U
Acenaphthene	20	14		**160**	D^{200}	0.2	U	200	U, D^{1000}	**63**	D^{50}	7	U	**41**		0.19	U
Benzo(a)pyrene	0	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	15	D^{50}	5	U	10	U	0.19	U
Benzo(b)fluoranthene	0.002	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	**14**	D^{50}	**4**	D^{10}	10	U	0.19	U
Bis(2-Ethylhexyl)phthalate	5	5	U	24	U, D^{5}	5.1	U	5	U	250	U, D^{50}	5	U	5	U	4.8	U
Chrysene	0.002	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	10	U, D^{50}	**1600**	D^{100}	10	U	0.19	U
Fluorene	50	8.9		**80**	D^{5}	0.2	U	200	U, D^{1000}	**61**	D^{50}	4	D^{10}	36		0.19	U
Naphthalene	10	**300**	D^{10}	**14000**	D^{400}	0.62		**11000**	D^{1000}	**1400**	D^{100}	4.8	D^{10}	**990**		0.34	
Phenanthrene	50	11		**150**	D^{5}	0.2	U	200	U, D^{1000}	**120**	D^{50}	74	D^{10}	**52**		0.19	U
Phenol	1	7	U	**110**	D^{5}	7.2	U	**7.7**		350	U, D^{50}	7	U	7	U	6.7	U

Notes:

- Groundwater samples were compared to New York State Department of Environmental Conservation (NYSDEC) Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
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Table 3
Total Metals and Cyanide Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well													
		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		3rd Quarter 2010	
LANGAN SAMPLE ID	**NYSDEC TOGS 1.1.1 AWQS**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9/18/09**		**MW-N2-1-7-2010**		**MW-N2-3-1-2010**		**MW-N2-6-10-10**		**MW-N2-9-8-10**	
SAMPLING DATE		**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**		**9/8/2010**	
LAB SAMPLE ID		**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1000282-01**		**L1008735-02**		**L1013903-01**	
Total Metals (µg/L) Wesborough Lab															
Iron, Total	300	**5300**		**1900**		**1200**		**3500**		**4000**		**4800**		**2600**	
Lead, Total	25	15		10	U	10	U	10	U	10	U	10	U	10	U
Magnesium, Total	35000	**70000**		**70000**		**59000**		**83000**		**46000**		**46000**		**51000**	
Manganese, Total	300	**1570**		**1570**		**1340**		**746**		**603**		**632**		**528**	
Sodium, Total	20000	**300000**	D^{5}	**270000**		**250000**		**240000**		**110000**		**160000**		**200000**	
Cyanide (ug/L) - Wesborough Lab															
Cyanide, Total	200	**1100**	D^{10}	**789**	D^{3}	**799**	D^{2}	**890**	D^{10}	**1780**	D^{10}	**1500**	D^{3}	**1060**	D^{10}

Notes:

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Table 3
Total Metals and Cyanide Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Southern Well*												Quality Control	
		1st Quarter		1st Quarter		2nd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		3rd Quarter 2010		1st Quarter	
LANGAN SAMPLE ID	**NYSDEC TOGS 1.1.1 AWQS**	**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-7-2010**		**MW-N2-3-1-2010**		**MW-S2-6-10-10**		**MW-S2-9-8-10**		**FB-3-16-09**	
SAMPLING DATE		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**		**9/8/2010**		**3/16/2009**	
LAB SAMPLE ID		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L1000282-02**		**L1000282-01**		**L1008735-01**		**L1013903-02**		**L0903143-04**	
Total Metals (µg/L) Wesborough Lab				Duplicate of MW-N-3-16-09													
Iron, Total	300	**21000**		**2700**		**9200**		**3200**		**11000**		**5000**		**9800**		50	U
Lead, Total	25	**158**		10	U	**45**		17		**117**		**29**		**86**		10	U
Magnesium, Total	35000	**71000**		**72000**		**48000**		**120000**		**87000**		**85000**		**93000**		100	U
Manganese, Total	300	**598**		**1430**		**403**		**327**		**636**		**430**		**492**		10	U
Sodium, Total	20000	**96000**		**320000**	D^5	**100000**		**98000**		**89000**		**68000**		**76000**		2000	U
Cyanide (ug/L) - Wesborough Lab																	
Cyanide, Total	200	**1920**	D^{10}	**1090**	D^{10}	**1920**	D^5	**1090**	D^{10}	**973**	D^5	**1110**	D^5	**1540**	D^{10}	5	U, D^5

Notes:

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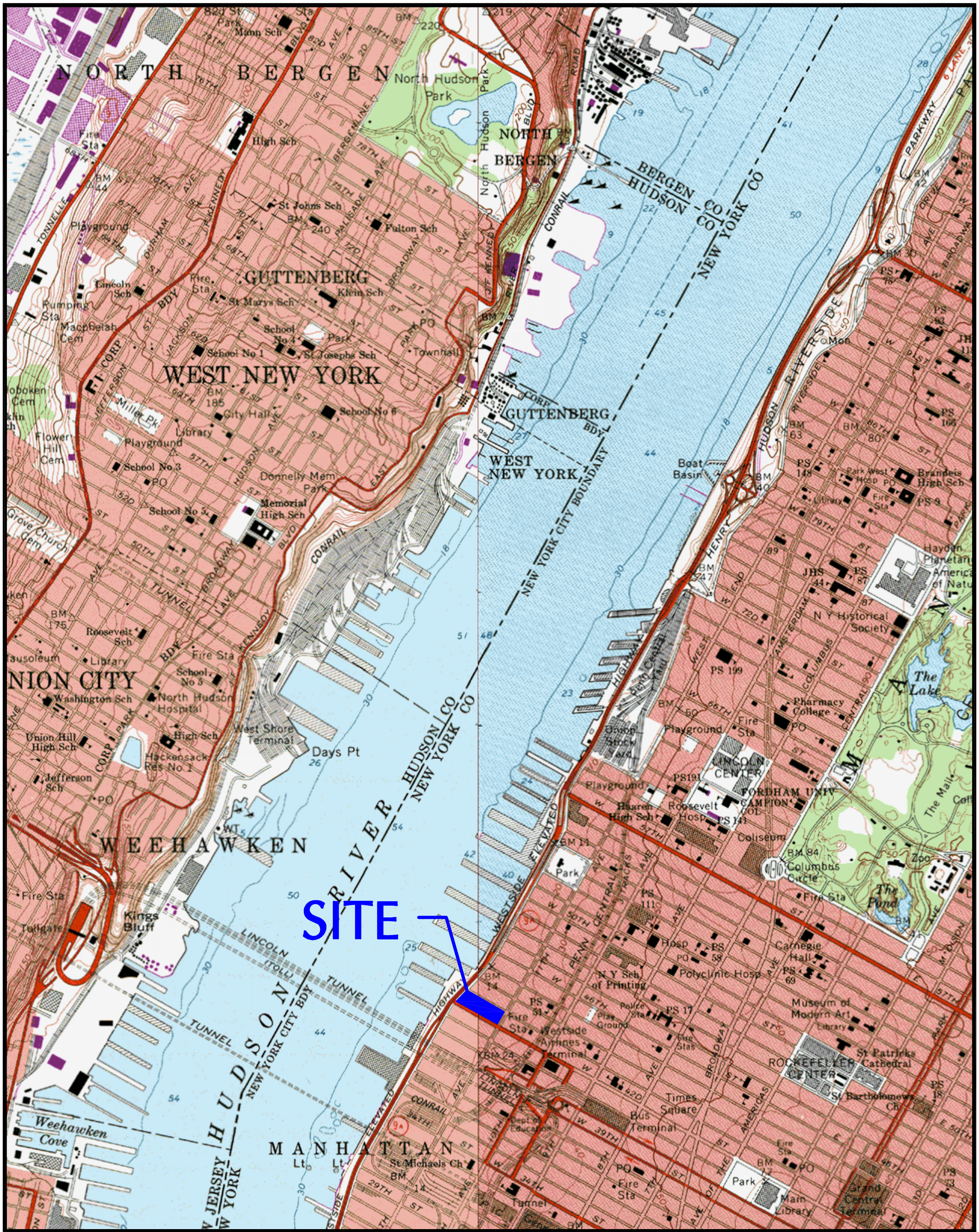
R1 - Analytical Results are from sample re-analysis

FIGURES



LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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NJ Certificate of Authorization No: 24GA27996400

Project

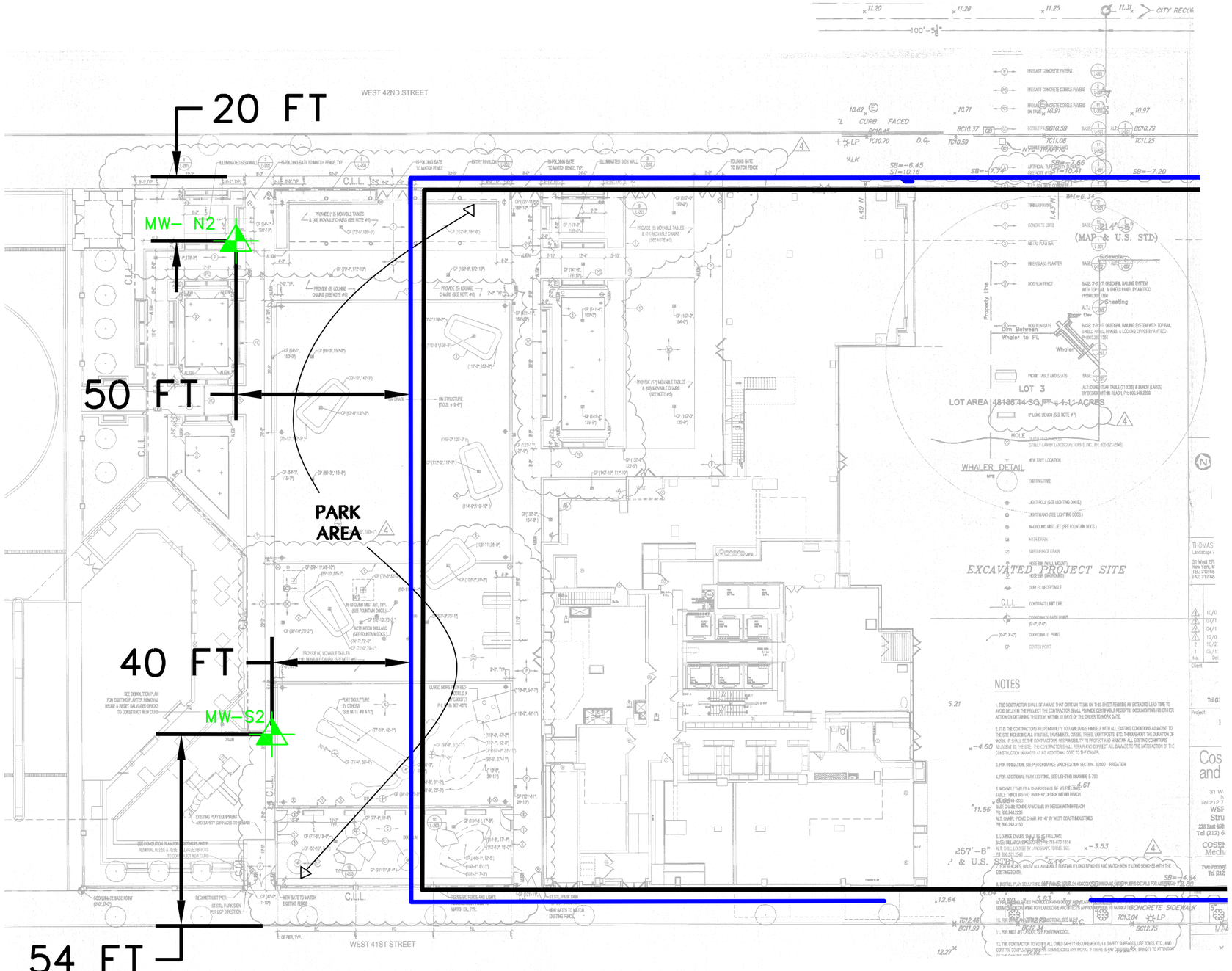
SITE LOCATION MAP

RIVER PLACE I AND II

NEW YORK NEW YORK

Project No.	Date	Scale	Dwg. No.
170040901	04/07/09	NTS	1

Filename: U:\Data9\170040901\Cadd Data - 170040901\Dwg\site location map.dwg Date: 5/5/2009 Time: 16:05 User: JGood Style Table: Langan.stb Layout: A Size Sheet (Bottom)



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 WELLS WERE RE-INSTALLED ON DECEMBER 28, 2009. LOCATIONS ARE APPROXIMATE.

LEGEND

MW– N2 — APPROXIMATE LOCATION OF MONITORING WELLS IN ACCORDANCE WITH SITE MANAGEMENT PLAN

SHEET PILE WALL

PROPERTY BOUNDARY (RIVER PLACE II)

30 0 15 30

SCALE IN FEET

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Project

MONITORING WELL LOCATION MAP

RIVER PLACE I & II

NEW YORK NEW YORK

Project No.	Date	Scale	Dwg. No.
170040901	01/21/2010	1" = 30'	2

Attachment A

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place	**Well#/Location:** MW-N2	**Job No.** 170040901
Date: 9/8/10	**Weather:** 80-deg F, Sunny	**Sampling Personnel:** S. Flanagan

Well Information

Sample ID	MW-N2-9-8-10
Well Depth (ft)[1]	19.55
Screened Interval (ft)	15
Casing Elevation (msl)	-
Casing Diameter (in)	2
Depth to Water (ft)[1]	9.59
Water Elevation (msl)	-
Casing Volume (gal)	1.62
PID/FID Reading (ppm)	-

Purging Information

Purging Method	Wattera Pump
Purging Rate (gpm)	0.1
Start Purge Time	9:08 AM
End Purge Time	10:00 AM
Volume Purged (gal)	5

Sampling Information

Sampling Method	Wattera Pump
Start Sampling Time	10:02 AM
End Sampling Time	10:15 AM
Depth Before Sampling (ft)	9.80
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
9:10	6.89	2.49	90.3	0.61	18.7	-219	9.59	0.25
9:15	6.86	2.36	113.0	0.00	18.8	-254		
9:20	6.75	2.06	84.3	0.00	19.1	-230		1
9:25	6.74	1.99	39.3	0.00	19.7	-245	9.95	
9:30	6.76	2.03	28.5	0.00	20.6	-268		2
9:35	6.81	2.11	22.9	0.00	21.1	-285		
9:40	6.85	2.17	18.0	0.00	21.7	-299	9.82	3
9:45	6.87	2.21	16.8	0.00	20.2	-309		
9:50	6.87	2.21	15.2	0.00	20.3	-311		4
9:55	6.87	2.22	14.1	0.00	20.2	-315	9.88	
10:00	6.87	2.22	14.5	0.00	20.4	-318		5

Notes/Remarks

NOTES:

Monitoring well was purged from 9:08 AM until 10:00 AM. The sample was collected at 10:15 AM.

QUALIFIERS:

1. Depth to water measured from Top of Well Casing.

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place	**Well#/Location:** MW-S2	**Job No.** 170040901
Date: 9/8/10	**Weather:** 80-deg F, Sunny	**Sampling Personnel:** S. Flanagan

Well Information

Sample ID	MW-S2-9-8-10
Well Depth (ft)[1]	19.35
Screened Interval (ft)	15
Casing Elevation (msl)	-
Casing Diameter (in)	2
Depth to Water (ft)[1]	9.06
Water Elevation (msl)	-
Casing Volume (gal)	1.68
PID/FID Reading (ppm)	-

Purging Information

Purging Method	Wattera Pump
Purging Rate (gpm)	0.1
Start Purge Time	11:37 AM
End Purge Time	1:12 PM
Volume Purged (gal)	8

Sampling Information

Sampling Method	Wattera Pump
Start Sampling Time	1:15 PM
End Sampling Time	1:40 PM
Depth Before Sampling (ft)	10.41
Number Bottles Collected	7

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
11:40	7.03	2.10	214.0	0.00	19.5	-185	9.06	0.2
11:45	7.00	2.03	63.6	0.00	19.8	-227		
11:50	6.99	2.05	47.1	0.00	19.6	-246		2
11:55	6.96	2.08	73.4	0.00	20.6	-270	10.03	3
12:00	6.95	2.08	63.9	0.00	20.8	-282		
12:05	6.95	2.08	58.3	0.00	20.7	-285		4
12:10	6.94	2.08	57.2	0.00	21.1	-289	10.02	
12:15	6.96	2.25	74.8	0.00	22.4	-282		4.25
12:20	6.96	2.23	67.3	0.00	22.0	-293		
12:25	6.96	2.22	72.5	0.00	21.7	-297	10.02	4.5
12:30	6.96	2.26	68.2	0.00	21.0	-297		
12:35	6.94	2.21	59.7	0.00	20.4	-296		5
12:40	6.93	2.22	57.4	0.00	20.3	-297	10.2	
12:45	6.92	2.21	52.6	0.00	20.5	-302		
12:50	6.91	2.21	49.4	0.00	20.4	-305		6
12:55	6.91	2.20	55.9	0.00	20.5	-310		
13:00	6.92	2.19	54.3	0.00	20.5	-314	10.4	7
13:05	6.93	2.18	52.1	0.00	20.6	-319		
13:10	6.93	2.18	53.6	0.00	20.7	-220	10.41	8

Notes/Remarks

NOTES:

Monitoring well was purged from 11:37 AM until 1:12 PM. The sample was collected at 1:40 PM.

QUALIFIERS:

1. Depth to water measured from Top of Well Casing.

Attachment B

ANALYTICAL REPORT

Lab Number:	L1013903
Client:	Langan Engineering and Environmental Ser 21 Penn Plaza 360 W. 31st Street 8th Floor New York, NY 10001-2727
ATTN:	Jason Hayes
Phone:	(212) 479-5427
Project Name:	RIVER PLACE I AND II
Project Number:	170040901
Report Date:	09/15/10

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

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1013903-01	MW-N2-9-8-10	W 42ND ST. NY, NY	09/08/10 10:15
L1013903-02	MW-S2-9-8-10	W 42ND ST. NY, NY	09/08/10 13:40
L1013903-03	TB-9-8-10	W 42ND ST. NY, NY	09/08/10 00:00

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

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. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of 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

L1013903-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

Semivolatile Organics

The WG431798-3 LCSD recovery, associated with L1013903-01 and -02, was above the acceptance criteria for 2,4-Dinitrotoluene (98%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

Semivolatile Organics - SIM

L1013903-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903
Project Number: 170040901 **Report Date:** 09/15/10

Case Narrative (continued)

The surrogate recoveries for L1013903-01 and -02 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and 4-Terphenyl-d14 (all 0%) due to the dilutions required to quantitate the samples. Re-extraction is not required; therefore, the results of the original analyses are reported.
The surrogate recovery for the WG431800-1 Method Blank, associated with L1013903-01 and -02, is above the acceptance criteria for 2,4,6-Tribromophenol (126%). Since the Method Blank was non-detect for all target analytes, re-analysis is not required.
The WG431800-2/-3 LCS/LCSD recoveries, associated with L1013903-01 and -02, were above the acceptance criteria for 2-Chloronaphthalene (LCS at 184%) and Pentachlorophenol (LCSD at 108%); however, the associated samples were non-detect for these target compounds. The results of the original analysis are reported. In addition, the associated LCS/LCSD RPD is above the acceptance criteria for 2-Chloronaphthalene (52%).

Metals
L1013903-01 and -02 have elevated detection limits for Antimony, Beryllium and Thallium due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limit for Thallium was not achieved.
The WG431685-4 MS recovery, performed on L1013903-01, is below the acceptance criteria for Selenium (74%). A post digestion spike was performed with an acceptable recovery of 117%.
The WG431685-4 MS recovery for Sodium (200%), performed on L1013903-01, is invalid because the sample concentration is greater than four times the spike amount added.

Cyanide, Total
L1013903-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Cyanide, Amenable
L1013903-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results

Project Name:	RIVER PLACE I AND II	**Lab Number:**	L1013903
Project Number:	170040901	**Report Date:**	09/15/10

Case Narrative (continued)

within the calibration range.

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: Elizabeth Simmons

Title: Technical Director/Representative Date: 09/15/10

ORGANICS

VOLATILES

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01 D
Client ID: MW-N2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 09/10/10 14:16
Analyst: PD

Date Collected: 09/08/10 10:15
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1200	--	250
1,1-Dichloroethane	ND		ug/l	190	--	250
Chloroform	ND		ug/l	190	--	250
Carbon tetrachloride	ND		ug/l	120	--	250
1,2-Dichloropropane	ND		ug/l	440	--	250
Dibromochloromethane	ND		ug/l	120	--	250
1,1,2-Trichloroethane	ND		ug/l	190	--	250
Tetrachloroethene	ND		ug/l	120	--	250
Chlorobenzene	ND		ug/l	120	--	250
Trichlorofluoromethane	ND		ug/l	620	--	250
1,2-Dichloroethane	ND		ug/l	120	--	250
1,1,1-Trichloroethane	ND		ug/l	120	--	250
Bromodichloromethane	ND		ug/l	120	--	250
trans-1,3-Dichloropropene	ND		ug/l	120	--	250
cis-1,3-Dichloropropene	ND		ug/l	120	--	250
1,1-Dichloropropene	ND		ug/l	620	--	250
Bromoform	ND		ug/l	500	--	250
1,1,2,2-Tetrachloroethane	ND		ug/l	120	--	250
Benzene	2100		ug/l	120	--	250
Toluene	290		ug/l	190	--	250
Ethylbenzene	810		ug/l	120	--	250
Chloromethane	ND		ug/l	620	--	250
Bromomethane	ND		ug/l	250	--	250
Vinyl chloride	ND		ug/l	250	--	250
Chloroethane	ND		ug/l	250	--	250
1,1-Dichloroethene	ND		ug/l	120	--	250
trans-1,2-Dichloroethene	ND		ug/l	190	--	250
Trichloroethene	ND		ug/l	120	--	250
1,2-Dichlorobenzene	ND		ug/l	620	--	250
1,3-Dichlorobenzene	ND		ug/l	620	--	250

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01 D Date Collected: 09/08/10 10:15

Client ID: MW-N2-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	620	--	250
Methyl tert butyl ether	ND		ug/l	250	--	250
p/m-Xylene	1100		ug/l	250	--	250
o-Xylene	590		ug/l	250	--	250
cis-1,2-Dichloroethene	ND		ug/l	120	--	250
Dibromomethane	ND		ug/l	1200	--	250
1,2,3-Trichloropropane	ND		ug/l	1200	--	250
Acrylonitrile	ND		ug/l	1200	--	250
Styrene	ND		ug/l	250	--	250
Dichlorodifluoromethane	ND		ug/l	1200	--	250
Acetone	ND		ug/l	1200	--	250
Carbon disulfide	ND		ug/l	1200	--	250
2-Butanone	ND		ug/l	1200	--	250
Vinyl acetate	ND		ug/l	1200	--	250
4-Methyl-2-pentanone	ND		ug/l	1200	--	250
2-Hexanone	ND		ug/l	1200	--	250
Bromochloromethane	ND		ug/l	620	--	250
2,2-Dichloropropane	ND		ug/l	620	--	250
1,2-Dibromoethane	ND		ug/l	500	--	250
1,3-Dichloropropane	ND		ug/l	620	--	250
1,1,1,2-Tetrachloroethane	ND		ug/l	120	--	250
Bromobenzene	ND		ug/l	620	--	250
n-Butylbenzene	ND		ug/l	120	--	250
sec-Butylbenzene	ND		ug/l	120	--	250
tert-Butylbenzene	ND		ug/l	620	--	250
o-Chlorotoluene	ND		ug/l	620	--	250
p-Chlorotoluene	ND		ug/l	620	--	250
1,2-Dibromo-3-chloropropane	ND		ug/l	620	--	250
Hexachlorobutadiene	ND		ug/l	150	--	250
Isopropylbenzene	ND		ug/l	120	--	250
p-Isopropyltoluene	ND		ug/l	120	--	250
Naphthalene	12000		ug/l	620	--	250
n-Propylbenzene	ND		ug/l	120	--	250
1,2,3-Trichlorobenzene	ND		ug/l	620	--	250
1,2,4-Trichlorobenzene	ND		ug/l	620	--	250
1,3,5-Trimethylbenzene	ND		ug/l	620	--	250
1,2,4-Trimethylbenzene	ND		ug/l	620	--	250

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01 D
Client ID: MW-N2-9-8-10
Sample Location: W 42ND ST. NY, NY
Date Collected: 09/08/10 10:15
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Diethylbenzene	ND		ug/l	500	--	250
4-Ethyltoluene	ND		ug/l	500	--	250
1,2,4,5-Tetramethylbenzene	ND		ug/l	500	--	250
Ethyl ether	ND		ug/l	620	--	250
trans-1,4-Dichloro-2-butene	ND		ug/l	620	--	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02 D
Client ID: MW-S2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 09/10/10 14:50
Analyst: PD

Date Collected: 09/08/10 13:40
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	250	--	50
1,1-Dichloroethane	ND		ug/l	38	--	50
Chloroform	ND		ug/l	38	--	50
Carbon tetrachloride	ND		ug/l	25	--	50
1,2-Dichloropropane	ND		ug/l	88	--	50
Dibromochloromethane	ND		ug/l	25	--	50
1,1,2-Trichloroethane	ND		ug/l	38	--	50
Tetrachloroethene	ND		ug/l	25	--	50
Chlorobenzene	ND		ug/l	25	--	50
Trichlorofluoromethane	ND		ug/l	120	--	50
1,2-Dichloroethane	ND		ug/l	25	--	50
1,1,1-Trichloroethane	ND		ug/l	25	--	50
Bromodichloromethane	ND		ug/l	25	--	50
trans-1,3-Dichloropropene	ND		ug/l	25	--	50
cis-1,3-Dichloropropene	ND		ug/l	25	--	50
1,1-Dichloropropene	ND		ug/l	120	--	50
Bromoform	ND		ug/l	100	--	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	--	50
Benzene	110		ug/l	25	--	50
Toluene	ND		ug/l	38	--	50
Ethylbenzene	460		ug/l	25	--	50
Chloromethane	ND		ug/l	120	--	50
Bromomethane	ND		ug/l	50	--	50
Vinyl chloride	ND		ug/l	50	--	50
Chloroethane	ND		ug/l	50	--	50
1,1-Dichloroethene	ND		ug/l	25	--	50
trans-1,2-Dichloroethene	ND		ug/l	38	--	50
Trichloroethene	ND		ug/l	25	--	50
1,2-Dichlorobenzene	ND		ug/l	120	--	50
1,3-Dichlorobenzene	ND		ug/l	120	--	50

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02 D Date Collected: 09/08/10 13:40

Client ID: MW-S2-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	120	--	50
Methyl tert butyl ether	ND		ug/l	50	--	50
p/m-Xylene	82		ug/l	50	--	50
o-Xylene	70		ug/l	50	--	50
cis-1,2-Dichloroethene	ND		ug/l	25	--	50
Dibromomethane	ND		ug/l	250	--	50
1,2,3-Trichloropropane	ND		ug/l	250	--	50
Acrylonitrile	ND		ug/l	250	--	50
Styrene	ND		ug/l	50	--	50
Dichlorodifluoromethane	ND		ug/l	250	--	50
Acetone	ND		ug/l	250	--	50
Carbon disulfide	ND		ug/l	250	--	50
2-Butanone	ND		ug/l	250	--	50
Vinyl acetate	ND		ug/l	250	--	50
4-Methyl-2-pentanone	ND		ug/l	250	--	50
2-Hexanone	ND		ug/l	250	--	50
Bromochloromethane	ND		ug/l	120	--	50
2,2-Dichloropropane	ND		ug/l	120	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	120	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	50
Bromobenzene	ND		ug/l	120	--	50
n-Butylbenzene	ND		ug/l	25	--	50
sec-Butylbenzene	ND		ug/l	25	--	50
tert-Butylbenzene	ND		ug/l	120	--	50
o-Chlorotoluene	ND		ug/l	120	--	50
p-Chlorotoluene	ND		ug/l	120	--	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
Isopropylbenzene	44		ug/l	25	--	50
p-Isopropyltoluene	ND		ug/l	25	--	50
Naphthalene	1900		ug/l	120	--	50
n-Propylbenzene	30		ug/l	25	--	50
1,2,3-Trichlorobenzene	ND		ug/l	120	--	50
1,2,4-Trichlorobenzene	ND		ug/l	120	--	50
1,3,5-Trimethylbenzene	ND		ug/l	120	--	50
1,2,4-Trimethylbenzene	150		ug/l	120	--	50

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02 D Date Collected: 09/08/10 13:40

Client ID: MW-S2-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Diethylbenzene	ND		ug/l	100	--	50
4-Ethyltoluene	ND		ug/l	100	--	50
1,2,4,5-Tetramethylbenzene	ND		ug/l	100	--	50
Ethyl ether	ND		ug/l	120	--	50
trans-1,4-Dichloro-2-butene	ND		ug/l	120	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-03
Client ID: TB-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 09/10/10 13:42
Analyst: PD

Date Collected: 09/08/10 00:00
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	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

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-03 Date Collected: 09/08/10 00:00

Client ID: TB-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-03
Client ID: TB-9-8-10
Sample Location: W 42ND ST. NY, NY
Date Collected: 09/08/10 00:00
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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	121		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/10/10 09:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG431847-3					
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 I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/10/10 09:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG431847-3					
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 I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/10/10 09:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG431847-3					
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	121		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I AND II

Project Number: 170040901

Lab Number: L1013903

Report Date: 09/15/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG431847-1 WG431847-2								
Chlorobenzene	101		102		75-130	1		20
Benzene	102		104		76-127	2		20
Toluene	99		103		76-125	4		20
1,1-Dichloroethene	89		94		61-145	5		20
Trichloroethene	102		104		71-120	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		121		70-130
Toluene-d8	104		106		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	105		104		70-130

SEMIVOLATILES

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID:	L1013903-01	Date Collected:	09/08/10 10:15
Client ID:	MW-N2-9-8-10	Date Received:	09/08/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/10/10 11:12
Analytical Date:	09/15/10 04:10		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Biphenyl	34		ug/l	5.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	7.0	--	1
Dibenzofuran	61		ug/l	5.0	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--	1

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01
Client ID: MW-N2-9-8-10
Sample Location: W 42ND ST. NY, NY
Date Collected: 09/08/10 10:15
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	20	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	160		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Phenol	27		ug/l	7.0	--	1
2-Methylphenol	94		ug/l	6.0	--	1
3-Methylphenol/4-Methylphenol	32		ug/l	6.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	10	--	1
Carbazole	120		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	111		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	87		33-120

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01 D
Client ID: MW-N2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/15/10 12:25
Analyst: JC

Date Collected: 09/08/10 10:15
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	97		ug/l	80	--	400
2-Chloronaphthalene	ND		ug/l	80	--	400
Fluoranthene	ND		ug/l	80	--	400
Hexachlorobutadiene	ND		ug/l	200	--	400
Naphthalene	6900		ug/l	80	--	400
Benzo(a)anthracene	ND		ug/l	80	--	400
Benzo(a)pyrene	ND		ug/l	80	--	400
Benzo(b)fluoranthene	ND		ug/l	80	--	400
Benzo(k)fluoranthene	ND		ug/l	80	--	400
Chrysene	ND		ug/l	80	--	400
Acenaphthylene	ND		ug/l	80	--	400
Anthracene	ND		ug/l	80	--	400
Benzo(ghi)perylene	ND		ug/l	80	--	400
Fluorene	ND		ug/l	80	--	400
Phenanthrene	ND		ug/l	80	--	400
Dibenzo(a,h)anthracene	ND		ug/l	80	--	400
Indeno(1,2,3-cd)Pyrene	ND		ug/l	80	--	400
Pyrene	ND		ug/l	80	--	400
2-Methylnaphthalene	ND		ug/l	80	--	400
Pentachlorophenol	ND		ug/l	320	--	400
Hexachlorobenzene	ND		ug/l	320	--	400
Hexachloroethane	ND		ug/l	320	--	400

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01 D Date Collected: 09/08/10 10:15

Client ID: MW-N2-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

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

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID:	L1013903-02	Date Collected:	09/08/10 13:40
Client ID:	MW-S2-9-8-10	Date Received:	09/08/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/10/10 11:12
Analytical Date:	09/15/10 04:35		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Biphenyl	27		ug/l	5.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	7.0	--	1
Dibenzofuran	17		ug/l	5.0	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--	1

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02 Date Collected: 09/08/10 13:40

Client ID: MW-S2-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	20	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	ND		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Phenol	ND		ug/l	7.0	--	1
2-Methylphenol	ND		ug/l	6.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	10	--	1
Carbazole	42		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	82		33-120

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02 D
Client ID: MW-S2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/15/10 12:55
Analyst: JC

Date Collected: 09/08/10 13:40
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	41		ug/l	10	--	50
2-Chloronaphthalene	ND		ug/l	10	--	50
Fluoranthene	12		ug/l	10	--	50
Hexachlorobutadiene	ND		ug/l	25	--	50
Naphthalene	990		ug/l	10	--	50
Benzo(a)anthracene	ND		ug/l	10	--	50
Benzo(a)pyrene	ND		ug/l	10	--	50
Benzo(b)fluoranthene	ND		ug/l	10	--	50
Benzo(k)fluoranthene	ND		ug/l	10	--	50
Chrysene	ND		ug/l	10	--	50
Acenaphthylene	ND		ug/l	10	--	50
Anthracene	13		ug/l	10	--	50
Benzo(ghi)perylene	ND		ug/l	10	--	50
Fluorene	36		ug/l	10	--	50
Phenanthrene	52		ug/l	10	--	50
Dibenzo(a,h)anthracene	ND		ug/l	10	--	50
Indeno(1,2,3-cd)Pyrene	ND		ug/l	10	--	50
Pyrene	15		ug/l	10	--	50
2-Methylnaphthalene	28		ug/l	10	--	50
Pentachlorophenol	ND		ug/l	40	--	50
Hexachlorobenzene	ND		ug/l	40	--	50
Hexachloroethane	ND		ug/l	40	--	50

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02 D Date Collected: 09/08/10 13:40

Client ID: MW-S2-9-8-10 Date Received: 09/08/10

Sample Location: W 42ND ST. NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

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

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/14/10 22:32
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG431798-1					
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 I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/14/10 22:32
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG431798-1					
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 I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/14/10 22:32
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG431798-1					
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	46		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	88		33-120

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/14/10 22:20
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG431800-1					
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	--
Pentachlorophenol	ND		ug/l	0.80	--
Hexachlorobenzene	ND		ug/l	0.80	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/14/10 22:20
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 09/10/10 11:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG431800-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	**126**	Q	10-120
4-Terphenyl-d14	116		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG431798-2 WG431798-3								
Acenaphthene	71		83		46-118	16		30
1,2,4-Trichlorobenzene	53		67		39-98	23		30
2-Chloronaphthalene	70		84		40-140	18		30
1,2-Dichlorobenzene	56		67		40-140	18		30
1,4-Dichlorobenzene	54		65		36-97	18		30
2,4-Dinitrotoluene	85		**98**	Q	24-96	14		30
2,6-Dinitrotoluene	67		81		40-140	19		30
Fluoranthene	84		98		40-140	15		30
4-Chlorophenyl phenyl ether	77		91		40-140	17		30
n-Nitrosodi-n-propylamine	61		74		41-116	19		30
Butyl benzyl phthalate	84		98		40-140	15		30
Anthracene	82		94		40-140	14		30
Pyrene	79		92		26-127	15		30
P-Chloro-M-Cresol	71		84		23-97	17		30
2-Chlorophenol	61		74		27-123	19		30
2-Nitrophenol	63		79		30-130	23		30
4-Nitrophenol	30		33		10-80	10		30
2,4-Dinitrophenol	64		78		20-130	20		30
Pentachlorophenol	82		95		9-103	15		30
Phenol	31		38		12-110	20		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I AND II

Project Number: 170040901

Lab Number: L1013903

Report Date: 09/15/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG431798-2 WG431798-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44		47		21-120
Phenol-d6	29		31		10-120
Nitrobenzene-d5	67		70		23-120
2-Fluorobiphenyl	70		74		15-120
2,4,6-Tribromophenol	86		88		10-120
4-Terphenyl-d14	85		85		33-120

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG431800-2 WG431800-3								
Acenaphthene	80		94		37-111	16		40
2-Chloronaphthalene	**184**	Q	108		40-140	**52**	Q	40
Fluoranthene	116		122		40-140	5		40
Anthracene	99		110		40-140	11		40
Pyrene	110		114		26-127	4		40
Pentachlorophenol	93		**108**	Q	9-103	15		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I AND II

Project Number: 170040901

Lab Number: L1013903

Report Date: 09/15/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG431800-2 WG431800-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	38		54		21-120
Phenol-d6	35		43		10-120
Nitrobenzene-d5	75		96		23-120
2-Fluorobiphenyl	66		79		15-120
2,4,6-Tribromophenol	71		83		10-120
4-Terphenyl-d14	104		110		33-120

METALS

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01
Client ID: MW-N2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Date Collected: 09/08/10 10:15
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.74		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Antimony, Total	ND		mg/l	0.0025	--	5	09/09/10 16:45	09/11/10 00:02	EPA 3005A	1,6020	BM
Arsenic, Total	0.011		mg/l	0.005	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Barium, Total	0.147		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0025	--	5	09/09/10 16:45	09/11/10 00:02	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Calcium, Total	170		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Iron, Total	2.6		mg/l	0.05	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Magnesium, Total	51		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Manganese, Total	0.528		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	--	1	09/10/10 17:00	09/13/10 12:40	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Potassium, Total	26		mg/l	2.5	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Sodium, Total	200		mg/l	2.0	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0025	--	5	09/09/10 16:45	09/11/10 00:02	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	--	1	09/09/10 15:45	09/13/10 10:50	EPA 3005A	1,6010B	AI

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02
Client ID: MW-S2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Date Collected: 09/08/10 13:40
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4.3		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Antimony, Total	ND		mg/l	0.0025	--	5	09/09/10 16:45	09/11/10 00:08	EPA 3005A	1,6020	BM
Arsenic, Total	0.018		mg/l	0.005	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Barium, Total	0.272		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0025	--	5	09/09/10 16:45	09/11/10 00:08	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Calcium, Total	250		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Chromium, Total	0.01		mg/l	0.01	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Copper, Total	0.019		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Iron, Total	9.8		mg/l	0.05	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Lead, Total	0.086		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Magnesium, Total	93		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Manganese, Total	0.492		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Mercury, Total	0.0005		mg/l	0.0002	--	1	09/10/10 17:00	09/13/10 12:46	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Potassium, Total	27		mg/l	2.5	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Sodium, Total	76		mg/l	2.0	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0025	--	5	09/09/10 16:45	09/11/10 00:08	EPA 3005A	1,6020	BM
Vanadium, Total	0.011		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI
Zinc, Total	0.051		mg/l	0.050	--	1	09/09/10 15:45	09/13/10 11:20	EPA 3005A	1,6010B	AI

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG431685-1										
Aluminum, Total	ND		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Arsenic, Total	ND		mg/l	0.005	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Barium, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Calcium, Total	ND		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Iron, Total	ND		mg/l	0.05	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Lead, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Magnesium, Total	ND		mg/l	0.10	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Manganese, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Nickel, Total	ND		mg/l	0.025	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Potassium, Total	ND		mg/l	2.5	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Sodium, Total	ND		mg/l	2.0	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Vanadium, Total	ND		mg/l	0.010	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	--	1	09/09/10 15:45	09/13/10 10:44	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG431698-1										
Antimony, Total	ND		mg/l	0.0005	--	1	09/09/10 16:45	09/10/10 18:29	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	--	1	09/09/10 16:45	09/10/10 18:29	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	--	1	09/09/10 16:45	09/10/10 18:29	1,6020	BM

Project Name: RIVER PLACE I AND II **Lab Number:** L1013903

Project Number: 170040901 **Report Date:** 09/15/10

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG431879-1										
Mercury, Total	ND		mg/l	0.0002	--	1	09/10/10 17:00	09/13/10 12:33	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I AND II

Project Number: 170040901

Lab Number: L1013903

Report Date: 09/15/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG431685-2								
Aluminum, Total	100		-		80-120	-		
Arsenic, Total	113		-		80-120	-		
Barium, Total	102		-		80-120	-		
Cadmium, Total	111		-		80-120	-		
Calcium, Total	100		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	103		-		80-120	-		
Copper, Total	102		-		80-120	-		
Iron, Total	100		-		80-120	-		
Lead, Total	105		-		80-120	-		
Magnesium, Total	99		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	113		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Vanadium, Total	101		-		80-120	-		
Zinc, Total	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I AND II

Project Number: 170040901

Lab Number: L1013903

Report Date: 09/15/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG431698-2					
Antimony, Total	107	-	80-120	-	
Beryllium, Total	109	-	80-120	-	
Thallium, Total	100	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG431879-2					
Mercury, Total	105	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG431685-4 QC Sample: L1013903-01 Client ID: MW-N2-9-8-10												
Aluminum, Total	0.74	2	2.7	98		-	-		75-125	-		20
Arsenic, Total	0.011	0.12	0.152	118		-	-		75-125	-		20
Barium, Total	0.147	2	2.16	101		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.054	106		-	-		75-125	-		20
Calcium, Total	170	10	180	100		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.20	100		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.498	100		-	-		75-125	-		20
Copper, Total	ND	0.25	0.258	103		-	-		75-125	-		20
Iron, Total	2.6	1	3.5	90		-	-		75-125	-		20
Lead, Total	ND	0.51	0.500	98		-	-		75-125	-		20
Magnesium, Total	51	10	59	80		-	-		75-125	-		20
Manganese, Total	0.528	0.5	1.01	96		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.474	95		-	-		75-125	-		20
Potassium, Total	26	10	37	110		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.089	**74**	Q	-	-		75-125	-		20
Silver, Total	ND	0.05	0.052	105		-	-		75-125	-		20
Sodium, Total	200	10	220	**200**		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.508	102		-	-		75-125	-		20
Zinc, Total	ND	0.5	0.508	102		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

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): 01-02 QC Batch ID: WG431698-4 QC Sample: L1013879-01 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.5168	103	-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.0544	109	-	-	80-120	-	20
Thallium, Total	ND	0.12	0.1160	97	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG431879-4 QC Sample: L1013903-01 Client ID: MW-N2-9-8-10									
Mercury, Total	ND	0.001	0.0013	130	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG431685-3 QC Sample: L1013903-01 Client ID: MW-N2-9-8-10						
Aluminum, Total	0.74	0.72	mg/l	3		20
Arsenic, Total	0.011	0.010	mg/l	9		20
Barium, Total	0.147	0.144	mg/l	2		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	170	170	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	2.6	2.5	mg/l	4		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	51	50	mg/l	2		20
Manganese, Total	0.528	0.523	mg/l	1		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	26	26	mg/l	0		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	200	200	mg/l	0		20
Vanadium, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG431879-3 QC Sample: L1013903-01 Client ID: MW-N2-9-8-10					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-01
Client ID: MW-N2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water

Date Collected: 09/08/10 10:15
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	1.06		mg/l	0.050	--	10	09/10/10 11:15	09/10/10 16:38	1,9010B/9012A	JO
Cyanide, Amenable	0.156		mg/l	0.050	--	10	09/10/10 11:15	09/10/10 16:00	1,9010B	JO

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013903-02
Client ID: MW-S2-9-8-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water

Date Collected: 09/08/10 13:40
Date Received: 09/08/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	1.54		mg/l	0.050	--	10	09/10/10 11:15	09/10/10 16:40	1,9010B/9012A	JO
Cyanide, Amenable	0.196		mg/l	0.050	--	10	09/10/10 11:15	09/10/10 16:00	1,9010B	JO

Project Name: RIVER PLACE I AND II
Project Number: 170040901
Lab Number: L1013903
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG431782-2										
Cyanide, Amenable	ND		mg/l	0.010	--	2	09/10/10 11:15	09/10/10 16:00	1,9010B	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG431785-3										
Cyanide, Total	ND		mg/l	0.005	--	1	09/10/10 11:15	09/10/10 16:02	1,9010B/9012A	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I AND II

Project Number: 170040901

Lab Number: L1013903

Report Date: 09/15/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG431782-1								
Cyanide, Amenable	97		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG431785-1 WG431785-2								
Cyanide, Total	110		102		80-120	8		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG431785-4 WG431785-5 QC Sample: L1013903-01 Client ID: MW-N2-9-8-10												
Cyanide, Total	1.06	0.2	1.23	85		1.24	90		80-120	1		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG431782-3 QC Sample: L1013903-01 Client ID: MW-N2-9-8-10						
Cyanide, Amenable	0.156	0.197	mg/l	23		

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1013903-01A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-01B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-01C	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-01D	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1013903-01E	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1013903-01F	Plastic 500ml NaOH preserved	A	>12	2.4	Y	Absent	TCN-9010(14),ACN-9010(14)
L1013903-01G	Plastic 500ml HNO3 preserved	A	<2	2.4	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)
L1013903-02A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-02B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-02C	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-02D	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1013903-02E	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1013903-02F	Plastic 500ml NaOH preserved	A	>12	2.4	Y	Absent	TCN-9010(14),ACN-9010(14)
L1013903-02G	Plastic 500ml HNO3 preserved	A	<2	2.4	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)

*Values in parentheses indicate holding time in days

Project Name: RIVER PLACE I AND II
Project Number: 170040901

Lab Number: L1013903
Report Date: 09/15/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1013903-03A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1013903-03B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	RIVER PLACE I AND II	**Lab Number:**	L1013903
Project Number:	170040901	**Report Date:**	09/15/10

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.

MDL · Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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.

NI · Not Ignitable.

RL · Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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 MCP-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. 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.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

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 RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name:	RIVER PLACE I AND II	**Lab Number:**	L1013903
Project Number:	170040901	**Report Date:**	09/15/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	RIVER PLACE I AND II	**Lab Number:**	L1013903
Project Number:	170040901	**Report Date:**	09/15/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

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 Analytical 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 Analytical.

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 July 19, 2010 - 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: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total 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, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)
Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, 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), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, 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, 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, EPA 300.0. Organic Parameters: 504.1, 524.2.)
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, ME DRO, ME GRO, MA EPH, MA VPH.)
*Solid Waste/Soil (*Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

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; ENZ. SUB. SM9223; 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, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.
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, 4500Cl-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, SM4500Cl-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, S\M3500Cr-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, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 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.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A , 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

Serial_No:09151016:39

NJ CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA
8 Walkup Drive
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 9/8/10

ALPHA Job #: L1013903

Client Information

Client: Langan Engineering
Address: 360 W 31st St, 8th Floor
New York, NY 10001
Phone: 212.479.5400
Fax: —
Email: SFlanagan/JCanouse@langan.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: River Place I and II
Project Location: W 42nd St NY, NY
Project #: 1700409.01
Project Manager: Jason Hayes
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 9/15/10 Time:

Report Type

☐ Data Summary ☐ NJ Full
☐ NJ Reduced ☒ Other Email

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements

☐ SRS-Residential/Non Residential
☐ SRS-Impact To Groundwater
☐ NJ Ground Water Quality Standards
☐ Other

Site Information

Is this site impacted by Petroleum?
Yes / No (circle one)
(Please indicate Petroleum Product - See Table 2-1 on reverse side)
Petroleum Product:

Are any samples for waste disposal?
Yes (No) (circle one)
(Please indicate which samples below in Sample Specific Comments field)

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC (EPA 8260)	SVOC (EPA 8270)	TAL Metals (EPA 6010)	Cyanide Total (SW 9012)	Cyanide Available (EPA 335.4)	TOTAL # BOTTLES	Sample Specific Comments
13903.1	MW-N2-9-8-10	9/8/10	1015	MW	SPF	X	X	X	X	X		
2	MW-S2-9-8-10	9/8/10	1340	MW	SPF	X	X	X	X	X		
3	TB-9-8-10	9/8/10	—	MW	SPF	X						

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	V	A	P	P	P
Preservative	B	A	C	E	G

Preservative Code:
A = None
B = HCl
C = HNO3
D = H2SO4
E = NaOH
F = MeOH
G = NaHSO4
H = Other

Relinquished By:	Date/Time	Received By:	Date/Time
Langan	9/8/10 1410		9/8/10 1410
	9/8/10 2325		9/8/10 2325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-14 (rev. 22-JUN-10)

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 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
Methapyrilene	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

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 NON POTABLE WATER
All approved analytes are listed below:

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)

Serial No.: 39518

NELAP Recognized

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:

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

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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EPA Lab Code: MA00030

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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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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
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
Benzoic 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
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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MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

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All approved analytes are listed below:

Wastewater Metals I	
Manganese, Total	EPA 6020
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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is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls

2,3',4,4',5-Pentachlorobiphenyl	EPA 8082

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NY Lab Id No: 11627
EPA Lab Code: MA00030

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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
Methapyrilene	EPA 8270C
o-Anisidine	EPA 8270C
Pronamide	EPA 8270C
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270C

Benzidines	
3,3'-Dimethylbenzidine	EPA 8270C
Benzidine	EPA 8270C
Characteristic Testing	
Corrosivity	EPA 9040B
	EPA 9045C
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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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides	
Kepone	EPA 8081A
Lindane	EPA 8081A
Methoxychlor	EPA 8081A
Pentachloronitrobenzene	EPA 8081A
	EPA 8270C
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 6020
Arsenic, Total	EPA 6020
Beryllium, Total	EPA 6020
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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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',5,5',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

Serial No.: 39520

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:

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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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
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

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All approved analytes are listed below:

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	
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
Semi-Volatile Organics	
Resorcinol	EPA 8270C
Safrole	EPA 8270C
Toluene Diisocyanate	EPA 8270C
Volatile Chlorinated Organics	
Benzyl chloride	EPA 8260B
Sample Preparation Methods	
	EPA 1311
	EPA 3050B
	EPA 3580
	EPA 5030B
	EPA 5035
	EPA 9010B

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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
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

Serial No.: 39521

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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

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category 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 (Methylethyl 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) (Colilert)
	SM18-21 9222B(97)/40CFR141.21(f)(6)
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

Serial No.: 39215

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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:

Drinking Water Non-Metals

Color	SM 18-21 2120B (01)
Cyanide, Total	SM 18-21 4500-CN E (99)
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

Microextractibles

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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8 WALKUP DR
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EPA Lab Code: MA00086

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All approved analytes are listed below:

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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EPA Lab Code: MA00086

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All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 624
	EPA 8260B
Acrylonitrile	EPA 624
	EPA 8260B
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
Benzidine	EPA 625
	EPA 8270C
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
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
	EPA 8081A
Endrin Ketone	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

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:

Chlorinated Hydrocarbon Pesticides	
gamma-Chlordane	EPA 8081A
Heptachlor	EPA 608
	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	
Acidity	SM 18-20 2310B.4a (97)
Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
	LACHAT 10-117-07-1 A or B
	SM 18-20 4500-Cl- E (97)
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 18-21 4500-F C (97)
Hardness, Total	EPA 200.7 Rev. 4.4
Sulfate (as SO4)	EPA 300.0 Rev. 2.1
	SM 15 426 C
Nitroaromatics and Isophorone	
1,3,5-Trinitrobenzene	EPA 8330
1,3-Dinitrobenzene	EPA 8330
2,4,6-Trinitrotoluene	EPA 8330
2,4-Dinitrotoluene	EPA 625
	EPA 8270C
	EPA 8330
2,6-Dinitrotoluene	EPA 625
	EPA 8270C
	EPA 8330
2-Amino-4,6-dinitrotoluene	EPA 8330
2-Nitrotoluene	EPA 8330
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 625

Nitroaromatics and Isophorone	
Isophorone	EPA 8270C
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330
Nitrobenzene	EPA 625
	EPA 8270C
	EPA 8330
Octahydro-tetranitro-tetrazocine	EPA 8330
Nitrosoamines	
N-Nitrosodimethylamine	EPA 625
	EPA 8270C
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270C
N-Nitrosodiphenylamine	EPA 625
	EPA 8270C
Nutrient	
Ammonia (as N)	EPA 350.1 Rev. 2.0
	LACHAT 10-107-06-1-B
	SM 18 4500-NH3 H
Kjeldahl Nitrogen, Total	EPA 351.1 Rev. 1978
	LACHAT 10-107-06-2
Nitrate (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
	LACHAT 10-107-04-1-C
	SM 18-21 4500-NO3 F (00)
Nitrite (as N)	SM 18-21 4500-NO2 B (00)
Orthophosphate (as P)	SM 18-21 4500-P E
Phosphorus, Total	SM 18-21 4500-P E

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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	
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

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
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 624

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-Dichloroethene	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 624
	EPA 8260B
trans-1,3-Dichloropropene	EPA 624
	EPA 8260B
Trichloroethene	EPA 624
	EPA 8260B
Trichlorofluoromethane	EPA 624
	EPA 8260B
Vinyl chloride	EPA 624
	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

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

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All approved analytes are listed below:

Wastewater Metals I		**Wastewater Metals II**	
Iron, Total	EPA 6010B	Antimony, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.7 Rev. 4.4		EPA 200.8 Rev. 5.4
	EPA 200.8 Rev. 5.4		EPA 6010B
	EPA 6010B		EPA 6020
	EPA 6020	Arsenic, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4		EPA 200.8 Rev. 5.4
	EPA 6010B		EPA 6010B
Manganese, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
	EPA 6020		EPA 6010B
Nickel, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Chromium VI	EPA 7196A
	EPA 6010B		SM 18-19 3500-Cr D
	EPA 6020	Mercury, Total	EPA 245.1 Rev. 3.0
Potassium, Total	EPA 200.7 Rev. 4.4		EPA 245.2 Rev. 1974
	EPA 6010B		EPA 7470A
Silver, Total	EPA 200.7 Rev. 4.4	Selenium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4		EPA 200.8 Rev. 5.4
	EPA 6010B		EPA 6010B
	EPA 6020		EPA 6020
Sodium, Total	EPA 200.7 Rev. 4.4	Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
Wastewater Metals II			EPA 6010B
Aluminum, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
	EPA 6020		EPA 6010B

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Wastewater Metals II	
Zinc, Total	EPA 6020
Wastewater Metals III	
Cobalt, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Thallium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Tin, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Titanium, Total	EPA 200.7 Rev. 4.4
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

Wastewater Miscellaneous	
Organic Carbon, Total	SM 18-21 5310C (00)
Phenols	EPA 420.1 Rev. 1978
	SM 14 510C
Silica, Dissolved	EPA 200.7 Rev. 4.4
	EPA 6010B
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfide (as S)	EPA 376.2
	SM 18-20 4500-S D (00)
Surfactant (MBAS)	SM 18-21 5540C (00)
Sample Preparation Methods	
	EPA 3005A
	EPA 3015
	EPA 3510C
	EPA 5030B
	EPA 9010B
	EPA 9030B
	SM 18-20 4500-NH3 B (97)

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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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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:

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
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

Serial No.: 39218

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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

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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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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(ghi)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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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-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B

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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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WESTBOROUGH, MA 01581-1019

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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 AIR AND EMISSIONS
All approved analytes are listed below:

Polynuclear Aromatics

Benzo(a)pyrene	EPA TO-13
Naphthalene	EPA TO-13

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ATTACHMENT D
Quarterly Groundwater Monitoring Report – Fourth Quarter 2010

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

David T. Gockel, P.E., P.P.
George P. Kelley, P.E.
George E. Derrick, P.E.
Michael A. Semeraro, Jr., P.E.
Nicholas De Rose, P.G.
Andrew J. Ciancia, P.E.
George E. Leventis, P.E.
Rudolph P. Frizzi, P.E., G.E.
Ronald A. Fuerst, C.L.A.
Colleen Costello, P.G.
Cristina M. González, P.E.
Gerald J. Zambrella, C.E.M.
Gregory M. Elko, P.E.
Steven Ueland, P.E.

Gregory L. Biesiadecki, P.E.
Marc J. Gallagher, P.E.
Donald J. Hodson, P.E.
Joel B. Landes, P.E.
Michele E. O'Connor, P.E.
Alan R. Poeppel, P.E.

Christopher Vitolano, P.E.

January 3, 2011

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- Fourth Quarter 2010
River Place I & II
West 42nd Street, New York, New York
BCP Site No. C231024, C231012
Langan Project No.: 170040901

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. A Final Engineering Report (FER) for the site was approved by the New York Stated Department of Environmental Conservation (NYSDEC) and a Certificate of Completion (COC) was issued on June 19, 2007. A Site Management Plan (SMP) dated July 2006 was approved by NYSDEC.

In accordance with the SMP, groundwater monitoring began on March 16, 2009 and was conducted quarterly thereafter on June 17, 2009, September 18, 2009, January 7, 2010, March 1, 2010, July 14, 2010 and September 8, 2010. This report summarizes the most recent results from sampling conducted on December 16, 2010.

Fourth Quarter 2010 Groundwater Sampling

On December 15, 2010, Langan sampled wells MW-N2 and MW-S2 to represent the Fourth Quarter 2010 sampling event. During sampling, Langan visually inspected the monitoring wells for evidence of tampering or damage, and measured the depth to groundwater. Synaptic water level 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 A of this report.

Prior to collecting groundwater samples, MW-N2 and MW-S2 were purged using low-flow purge and sample techniques. The wells were 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 A. Prior to sampling, the wells were allowed to recover to approximately 80% or more of the static water level.

MW-N2 and MW-S2 were purged until physical and chemical parameters stabilized. Approximately 10 and 8 gallons were purged from each monitoring well, respectively. After purging, samples MW-N2-12-15-10 and MW-S2-12-15-10 were collected using a Waterra pump and dedicated tubing.

The groundwater samples, MW-N2-12-15-10 and MW-S2-12-15-10 were 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 samples were 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

During this sampling event no free product was observed in MW-N2 and MW-S2. The wells were observed to be in good condition.

Groundwater Analytical Results

Analytical results for the Fourth Quarter 2010 monitoring event that exceeded the NYSDEC TOGS 1.1.1 AWQS Class GA Standards are summarized below.

MW-N2	
VOCs[1]	
• benzene	• toluene
• p/m-xylene	• naphthalene
• o-xylene	• ethylbenzene
SVOCs[1]	
• acenaphthene	• phenol
• naphthalene	• bis(2 ethylhexyl)phtalate

MW-S2	
VOCs[1]	
• benzene	• ethylbenzene
• naphthalene	• n-propylbenzene
• isopropylbenzene	• 1,2,4-trimethylbenzene
SVOCs[1]	
• acenapthene	• benzo(b)flouranthene
• naphthalene	• indeno(1,2,3–cd)pyrene
• phenanthrene	

Inorganics			**Inorganics**	
• iron	• magnesium		• iron	• magnesium
• manganese	• cyanide		• cyanide	• lead
• lead	• sodium		• mercury	• manganese
			• 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.

Analytical results for the First Quarter 2009 through Fourth Quarter 2010 sampling rounds are summarized in Tables 1 through 3 and the laboratory analytical report for Fourth Quarter 2010 is included as Attachment B.

Please contact us 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	Groundwater Sampling Forms
Attachment B	Laboratory Analytical Reports, Chain-of-Custody and Certifications

cc:
Richard Rienzo- Con Edison
William R. Dacunto- River Place II LLC
Jason Hayes – Langan

ATTACHMENT E
GCI Indoor Air Monitoring Report – Dated January 2011

AMBIENT/INDOOR AIR MONITORING ASSESSMENT SURVEY

for the property located at:

RIVERPLACE I & II
NEW YORK, NY

within the:

MANAGEMENT OFFICE CONFERENCE ROOM
NORTH SIDE OCCUPIED RESTAURANT
LOADING DOCK
EAST AND WEST SIDE - OUTSIDE AIR

prepared for:

SILVERSTEIN PROPERTIES, INC.
7 WORLD TRADE CENTER
NEW YORK, NY 10007

prepared by:

GCI **ENVIRONMENTAL ADVISORY, INC.**
655 THIRD AVENUE
NEW YORK, NY 10017

JANUARY 2011

TABLE OF CONTENTS

AMBIENT/INDOOR AIR MONITORING ASSESSMENT SURVEY

prepared for:

SILVERSTEIN PROPERTIES, INC.
7 WORLD TRADE CENTER
NEW YORK, NY 10007

I. EXECUTIVE SUMMARY

GCI Environmental Advisory, Inc. conducted Ambient/Indoor Air Monitoring as specified within the Site Management Plan (SMP) prepared by Dvirka and Bartilucci Consulting Engineers for Consolidated Edison Company of New York, Inc. (CON ED). This sampling plan was developed as per the requirements of The New York State Department of Environmental Conservation (NYCDEC) Brownfield Cleanup Agreement (Site ID No. C231024 and C231012) between CON ED and NYSDEC during December 22, 2010 which included Ambient/Indoor Air Sampling for Volatile Organic Compounds (VOCs) be conducted within the Riverplace I portion of the property for a period of three (3) years. The survey was conducted during December 22, 2010 by *GCI* Environmental Advisory, Inc. Certified Industrial Hygienist, Mr. James Grond and assisted by Senior Industrial Hygienist, Mr. Matthew P. Carriero and Environmental Sampling Technician, Ms. Amanda Grond.

The survey consisted of identifying two (2) outdoor sampling locations (East side park and along the Northwest section of the property) and three (3) interior sampling locations [Restaurant, Management Office Conference Room and Loading Dock). The sampling methodology was to collect an approximate one (1) hour Volatile Organic Compound (VOC) sample at each location for analysis in accordance with the Environmental Protection Agency's (EPA's) Compendium TO-15 methodology. Samples were collected by utilizing purged and evacuated, six (6) liter, SUMMA canisters which had a 0.1 liter per minute (lpm) flow regulator attached.

The sampling strategy was to determine wind direction and then collect two (2) exterior samples at both the up and down-wind sections of the property. Following completion of the exterior sampling, three (3) interior samples were collected which was followed by a final set of exterior samples in the same up and down-wind sampling locations as the initial samples. Field screening to identify any potential Volatile Organic Compound (VOC) interferences was conducted prior to sample collection utilizing a Rae Systems, San Jose, CA, MiniRAE^{3000} photoionization detector (PID). Pre-sampling PID readings did not indicate any elevated sources of VOC at each sampling location or identify potential interferences with the TO-15 sampling including the restaurant which is still located adjacent to a dry cleaner.

It was a clear, cold day (temperatures in the low to mid- 30° F range), with the wind speed at approximately nine (9) miles per hours [gust up to sixteen (16) miles per hour] out of the North-Northwest.

Laboratory analysis of the collected TO-15 samples indicated chemicals similar but in slightly lower levels as those detected during the Summer 2010 sampling exercise. Laboratory analysis also reported that no Freon (11, 12 or 112) or Methyl Ethyl Ketone (MEK) was detected during this sampling period.

Each interior sampling area contained similar office/building maintenance/cleaning/food products which were similar in nature to those observed during past surveys. The restaurant, fully functioning, had a mid-size lunch crowd and as such there were cooking and cleaning processes observed. The Loading Dock still is the site of the building's waste collection compactors as well as a storage area for construction supplies, discarded refrigerators, cabinets, paints, etc. The Conference Room, unoccupied during the sampling period as evidenced by the photographs, still contained numerous office supply products in open cabinets and minor amounts of building maintenance supplies and cleaning products.

Based upon the laboratory analysis and the levels detected in each sample, it does not appear that any of the detected chemicals are the result of sub-slab vapor intrusion into the building but rather general cleaning products and building occupation.

The following table summarizes the detected chemicals within each area:

Sample Location	Chemical Detected	Analytical Result
Outside Air - West side - approximately 20 feet South of Southwest corner of 42nd Street and West Side Highway (Pre-Interior Sampling)	Chloromethane Ethanol Isopropyl alcohol Acetone Ethyl acetate Toluene **Tentatively Identified Compounds** *Pentane*	0.55 ppbv / 1.1 µg/m^3 6.8 ppbv / 13 µg/m^3 0.51 ppbv / 1.3 µg/m^3 1.5 ppbv / 3.5µg/m^3 0.52 ppbv / 1.9 µg/m^3 0.54 ppbv / 2.0 µg/m^3 **Est. Concentration** 0.53 ppbv / 1.6 µg/m^3
Outside Air - East Side - Middle of Park Area (Pre-Interior Sampling)	Chloromethane Ethanol Isopropyl alcohol Acetone Ethyl acetate	0.53 ppbv / 1.1 µg/m^3 4.2 ppbv / 7.8 µg/m^3 0.50 ppbv / 1.2 µg/m^3 1.5 ppbv / 3.5µg/m^3 0.52 ppbv / 1.9 µg/m^3

Sample Location	Chemical Detected	Analytical Result
Inside Building - Loading Dock - East section	Ethanol	33 ppbv / 61 µg/m^3
	Isopropyl alcohol	1.5 pbv / 3.6 µg/m^3
	Acetone	2.0 ppbv / 4.7 µg/m^{33}
	Toluene	0.66 pbv / 2.5 µg/m^3
	Tentatively Identified Compounds	**Est. Concentration**
	Propane	2.6 ppbv / 4.7 µg/m^3
	Isobutane	0.72 pbv / 1.7 µg/m^3
	Butane	6.7 ppbv / 16 µg/m^3
	2-methyl-Butane	1.0 ppbv / 3.0 µg/m^3
	Pentane	0.85 pbv / 3.2 µg/m^3
	D-Limonene	0.51 ppbv / 2.8 µg/m^3
Inside Building - Middle of Restaurant	Chloromethane	0.65 ppbv / 1.3 µg/m^3
	Ethanol	220 pbv / 420 µg/m^3
	Isopropyl alcohol	16 ppbv / 38 µg/m^3
	Acetone	9.1 ppbv / 22 µg/m^3
	Ethyl acetate	1.9 ppbv / 6.8 µg/m^3
	Toluene	0.66 ppbv / 2.5 µg/m^3
	Tentatively Identified Compounds	**Est. Concentration**
	1,1-difluoro-Ethane	2.7 ppbv / 7.4 µg/m^3
	Isobutane	0.73 pbv / 1.7 µg/m^3
	Butane	3.9 ppbv / 9.2 µg/m^3
	Acetaldehyde	0.60 ppbv / 1.1 µg/m^3
	2-methyl-Butane	0.57 pbv / 1.7 µg/m^3
	Pentane	1.2 ppbv / 3.7 µg/m^3
	Hexanal	1.4 ppbv / 5.8 µg/m^3
	1R-alpha-Pinene	0.58 pbv / 3.2 µg/m^3
	Limonene	1.4 ppbv / 7.5 µg/m^3
Inside Building - Conference Room	Chloromethane	0.58 ppbv / 1.2 µg/m^3
	Ethanol	120 pbv / 230 µg/m^3
	Isopropyl alcohol	3.1 ppbv / 7.6 µg/m^3
	Acetone	7.0 ppbv / 17 µg/m^3
	Acetonitrile	4.9 ppbv / 15 µg/m^3
	Tertiary butyl alcohol (TBA)	0.52 ppbv / 1.8 µg/m^3
	n-Hexane	0.84 ppbv / 2.5 µg/m^3
	2-Butanone (MEK)	1.4 pbv / 5.1 µg/m^3
	Ethyl acetate	1.2 ppbv / 3.6 µg/m^3
	Toluene	1.1 ppbv / 4.0 µg/m^3
	1,2-Dichlorobenzene	0.68 pbv / 4.1 µg/m^3
	Tentatively Identified Compounds	**Est. Concentration**
	Propane	3.8 ppbv / 6.8 µg/m^3
	Isobutane	1.9 pbv / 4.4 µg/m^3
	Acetaldehyde	0.87 ppbv / 1.6 µg/m^3
	Butane	1.4 ppbv / 5.4 µg/m^3
	2-methyl-Butane	2.0 pbv / 6.0 µg/m^3
	Pentane	6.5 ppbv / 19 µg/m^3
	2-methyl-Pentane	3.8 ppbv / 13 µg/m^3
	2-methyl,1-Pentane	2.0 pbv / 6.9 µg/m^3
	2-ethoxy-2-methyl-Propane	0.96 ppbv / 4.0 µg/m^3
	4-methyl-Heptane	0.83 ppbv / 3.9 µg/m^3
	Dodecane	0.63 pbv / 4.4 µg/m^3
	Limonene	2.4 ppbv / 14 µg/m^3

Sample Location	Chemical Detected	Analytical Result
Outside Air - West side - approximately 20 feet South of Southwest corner of 42nd Street and West Side Highway (Post-Interior Sampling)	Ethanol Isopropyl alcohol Acetone Ethyl acetate **Tentatively Identified Compounds** *Propane* *Butane* *Pentane*	4.4 ppbv / 8.2 µg/m^3 0.56 ppbv / 1.4 µg/m^3 1.2 ppbv / 2.8 µg/m^3 1.9 ppbv / 6.8µg/m^{33} **Est. Concentration** 0.80 ppbv / 3.0 µg/m^3 0.50 ppbv / 1.2 µg/m^3 0.51 ppbv / 1.9 µg/m^3
Outside Air - East Side - Middle of Park Area (Post-Interior Sampling)	Ethanol Acetone Ethyl acetate **Tentatively Identified Compounds** *Diflourochloromethane* *Nonanal*	4.2 ppbv / 7.9 µg/m^3 1.9 ppbv / 4.5 µg/m^3 **Est. Concentration** 0.75 ppbv / 2.6 µg/m^3 0.68 ppbv / 3.9 µg/m^3

II. INTRODUCTION

The purpose of this survey was to conduct Ambient/Indoor Air Monitoring as specified within the Site Management Plan (SMP) prepared by Dvirka and Bartilucci Consulting Engineers for Consolidated Edison Company of New York, Inc. (CON ED) as per the requirements of The New York State Department of Environmental Conservation (NYCDEC) Brownfield Cleanup Agreement (Site ID No. C231024 and C231012). As part of the agreement , Ambient/Indoor Air Sampling was to be conducted within the Riverplace I portion of the property for a period of three (3) years.

An initial walk-through inspection was conducted and proposed sampling sites were identified that would include typical ground floor tenant air as well as outside air for comparison purposes. The sampling parameters for Volatile Organic Compounds (VOCs) were as per the Environmental Protection Agency's (EPA's) Compendium TO-15 list with Tentatively Identified Compounds (TICs) noted.

III. SAMPLING AND ANALYTICAL METHODOLOGY

The sampling and inspection strategy utilized included:

a. Visually inspecting each area to determine general ambient and logistic parameters;

b. Reviewing with facilities management all present tenant processes to determine potential sampling locations and sampling parameters;

c. GCI Environmental Advisory, Inc.'s Certified Industrial Hygienist identified two (2) outside sampling (up-wind and down-wind or West side and East side) locations along with three (3) interior sampling locations including the Management Office Conference Room, the Loading Dock and the Restaurant space;

d. A site inspection was conducted within each area to identify potential indoor and outdoor environmental conditions (traffic, potential contaminant sources, etc.) which could impact the sampling and created a chemical inventory to document any potential volatile organic compound (VOC) interference;

e. A Rae Systems, San Jose, CA, MiniRAE^{3000} photoionization detector (PID) was utilized as a field screening tool to identify potential Volatile Organic Compound (VOC) interferences prior to and upon completion of TO-15 sample collection;

f. TO-15 samples were collected in pre-cleaned, six (6) liter evacuated Summa canisters with an attached 0.1 lpm flow regulator to collect an approximate one (1) hour sample. The initial and final canister pressure readings were measured by an independent, attached vacuum gauge. The flow regulator was connected to the inlet port of the SUMMA cannister, the inlet port valve opened and the start time and initial pressure reading recorded. Upon completion of the approximate one (1) hour sample collection, the SUMMA canisters final pressure was noted, the inlet port valve closed and the stop time recorded. The regulator was removed and the inlet port sealed with a brass cap;

g. Exterior samples were placed approximately three (3) to twenty (20) feet from building structures depending upon environmental conditions (sidewalk and roadway on the Western portion of the property) at a sampling height of four (4) feet above grade surface while interior samples were collected within grade level areas and a sampling height of three (3) feet to six (6) feet above grade surface.

h. Two (2), exterior TO-15 samples were collected, one (1) up-wind (West side) and one (1) down-wind (East side) for an approximate one (1) hour sampling period prior to interior sampling;

i. Three (3) TO-15 interior samples were collected at the defined areas for an approximate one (1) hour sampling period;

j. Two (2) final exterior TO-15 samples were collected at the up and down-wind pre-interior sampling sites for an approximate one (1) hour sampling period following completion of the interior sampling;

k. All sampling data was recorded, a Chain of Custody Form prepared and the SUMMA canisters and regulators were packed for delivery via over-night carrier (Federal Express) to EMSL Analytical, 107 Haddon Avenue, Westmont, NJ 08108. A SUMMA field blank canister was subjected to the sample environmental conditions and was submitted for analysis along with the collected environmental samples;

l. Laboratory analysis was performed by EMSL Analytical, ELAP10896 for Total Volatile Organic Compounds (VOCs) via the Environmental Protection Agency Method TO-15 with TICs noted;

m. Due to data collection and retrieval issues with the on-site weather station, the environmental conditions utilized within this report were taken from the data collected for the Central Park, NY recording station;

n. The analytical results and sampling locations for all parameters tested can be found in their appropriate sections.

IV. OBSERVATIONS, CHEMICAL INVENTORY, ENVIRONMENTAL CONDITIONS

The following table details description of each sampling area, observations made during the sampling and a chemical inventory as well as environmental conditions or other potential interferences which would impact the sample results:

SAMPLING SITE	SAMPLING AREA DESCRIPTION	CHEMICAL INVENTORY	PID DETECTED INTERFERENCES	AMBIENT CONDITIONS
Outside Air East Side Park Area Samples 2-P and 7-P	New Grass Open Area Park with North of Retail Area #2 with grass, pavers, plantings, etc. Weather Station placed into this area. Located East of traffic circle for apartment building and idling vehicles noted during the sampling periods. Sample placed on new planter	No chemicals detected or noted	No detected levels or potential interferences	Clear, cold day with the wind out of the West at approximately nine (9) miles per hours, gusting to seventeen (17) miles per hour and temperatures were in the low to mid-30° F range
Outside Air West Side of building 20' South of corner of 42nd Street Samples 1-NW & 6-NW	Paved area located along 12th Avenue South of 42nd Street and traffic light - considerable traffic during both sampling periods.	No chemicals detected or noted	No detected levels or potential interferences	Clear, cold day with the wind out of the West at approximately nine (9) miles per hours, gusting to seventeen (17) miles per hour and temperatures were in the low to mid-30° F range
Inside Air Occupied Restaurant Sample 3-R	Newly occupied Italian Restaurant with tables, chairs, soda fountain, coolers, etc. - Area adjacent to Dry Cleaner which may impact samples.	Typical cleaning supplies, refrigerants (i.e. beer cooler, etc.), CO_2 cylinders, etc. and food products	No detected levels	Typical food smells
Inside Air Management Office Conference Room Sample 4-CR	Small interior Conference Room with table, chairs, computer, printer, office supplies, etc.	Office products (i.e. pens, tape, toner in printer, etc.)	No detected levels or potential interferences	No smell or odors detected - typical office temperatures
Inside Air Loading Dock Sample 5-LD	Loading Dock area of Building with garbage compactor, scaffolding, bricks, mechanical equipment, etc.	Pallet of drywall spackle, bricks, old appliances and furniture. Area contains building dumpster where tenants dispose of used cleaning products and other items. No unusual products or chemical noted	No detected levels	Slight paint smell

CHEMICAL INVENTORY
RIVERPLACE 1 & 11
AMBIENT/INDOOR AIR MONITORING ASSESSMENT SUMMARY
JULY 2010

SAMPLING LOCATION	CHEMICAL INVENTORY
Management Office Conference Room	Facsimile machine Envelopes Pledge Can Air Freshener Blue Prints Box highlighter pens Box type writer ribbons Multi-pack white-out Multi-pack tape Box inject cartridge for fax machine 2 - boxes ink pens 5+ - New vinyl binders 10+ - packages of envelopes File folders 1 - Roll bubble wrap Other associated packaged and open office supplies.
Active Loading Dock	1 - 30 yard Hydraulic Packing Unit for building wide recycling - products observed included plastic and glass containers formerly utilized as cleaners (i.e. glass, surfaces, clothing, etc.), food products and liquids (i.e. soda, water, liquor, etc.) 1 - Pallet of drywall spackle 3 - Gas-powered snow blowers 2+ - Used stoves 4+ - Used refrigerator Old Cabinets 1 and 5 gallon paint cans both full and partially empty Noticeable grease and oil smells
Occupied Restaurant	Beer coolers with refrigerant systems Walk-in cooler and free standing refrigerators Cleaners, Glass, Brash, Stainless Steel, dishwashing detergents, etc. Pledge-type product Food storage

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 1-NW

EMSL ID: 491001113-1
Canister ID: S8105

Primary Lab File ID: K5702.D
Analysis Date: 01/06/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.55**	0.50		**1.1**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**6.8**	0.50		**13**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**0.51**	0.50		**1.3**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**1.5**	0.50		**3.5**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**0.52**	0.50		**1.9**	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 1-NW

EMSL ID: 491001113-1
Canister ID: S8105

Primary Lab File ID: K5702.D
Analysis Date: 01/06/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**0.54**	0.50		**2.0**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.6	10	**106%**

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-1TIC
Client Sample ID:	1-NW	**Canister ID:**	S8105
Primary Lab File ID:	K5702.D	**Dilution Lab File ID:**	na
Analysis Date:	01/06/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Unknown		92	**0.75**	J	**2.8**	4.81
Pentane	000109-66-0	72	**0.53**	JN	**1.6**	7.83

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 2-P

EMSL ID: 491001113-2
Canister ID: T2198

Primary Lab File ID: K5703.D
Analysis Date: 01/06/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.53**	0.50		**1.1**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**4.2**	0.50		**7.8**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**0.50**	0.50		**1.2**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**1.5**	0.50		**3.5**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-2
Client Sample ID:	2-P	**Canister ID:**	T2198
Primary Lab File ID:	K5703.D	**Dilution Lab File ID:**	na
Analysis Date:	01/06/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	ND	0.50		ND	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.4	10	104%

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name: RP-VII N10-
Client Sample ID: 2-P

EMSL ID: 491001113-2TIC
Canister ID: T2198

Primary Lab File ID: K5703.D
Analysis Date: 01/06/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Unknown		92	**0.57**	J	**2.1**	4.81

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 3-R

EMSL ID: 491001113-3
Canister ID: T2187

Primary Lab File ID: K5704.D
Analysis Date: 01/06/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.65**	0.50		**1.3**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**220**	0.50	E	**420**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**16**	0.50		**38**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**9.1**	0.50		**22**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**1.9**	0.50		**6.8**	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10- **EMSL ID:** 491001113-3
Client Sample ID: 3-R **Canister ID:** T2187

Primary Lab File ID: K5704.D **Dilution Lab File ID:** na
Analysis Date: 01/06/2011 **Analysis Date:** na
Sample Vol(ml): 250 **Sample Vol(ml):** na
Dilution Factor: 1 **Dilution Factor:** na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**0.66**	0.50		**2.5**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.5	10	**105%**

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-3TIC
Client Sample ID:	3-R	**Canister ID:**	T2187
Primary Lab File ID:	K5704.D	**Dilution Lab File ID:**	na
Analysis Date:	01/06/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Ethane, 1,1-difluoro-	000075-37-6	66	**2.7**	JN	**7.4**	4.80
Isobutane	000075-28-5	58	**0.73**	JN	**1.7**	5.22
Butane	000106-97-8	58	**3.9**	JN	**9.2**	5.63
Acetaldehyde	000075-07-0	44	**0.60**	JN	**1.1**	6.06
Butane, 2-methyl-	000078-78-4	72	**0.57**	JN	**1.7**	7.00
Pentane	000109-66-0	72	**1.2**	JN	**3.7**	7.82
Hexanal	000066-25-1	100	**1.4**	JN	**5.8**	22.83
1R-.alpha.-Pinene	007785-70-8	136	**0.58**	JN	**3.2**	25.94
Limonene	000138-86-3	136	**1.4**	JN	**7.5**	28.17

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 4-CR

EMSL ID: 491001113-4RE
Canister ID: S8151

Primary Lab File ID: K5773.D
Analysis Date: 01/10/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.58**	0.50		**1.2**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**120**	0.50	E	**230**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**3.1**	0.50		**7.6**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**7.0**	0.50		**17**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	**4.9**	0.50		**15**	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	**0.52**	0.50		**1.8**	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**0.84**	0.50		**2.5**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**1.4**	0.50		**5.1**	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 4-CR

EMSL ID: 491001113-4RE
Canister ID: S8151

Primary Lab File ID: K5773.D
Analysis Date: 01/10/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**1.1**	0.50		**4.0**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	**0.68**	0.50		**4.1**	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.1	10	**101%**

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-4RETIC
Client Sample ID:	4-CR	**Canister ID:**	S8151
Primary Lab File ID:	K5773.D	**Dilution Lab File ID:**	na
Analysis Date:	01/10/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Propane	000074-98-6	44	**3.8**	JN	**6.8**	4.80
Isobutane	000075-28-5	58	**1.9**	JN	**4.4**	5.22
Acetaldehyde	000075-07-0	44	**0.87**	JN	**1.6**	6.05
Unknown		92	**1.4**	J	**5.4**	6.54
Butane, 2-methyl-	000078-78-4	72	**2.0**	JN	**6.0**	7.00
Pentane	000109-66-0	72	**6.5**	JN	**19**	7.80
Pentane, 2-methyl-	000107-83-5	86	**3.8**	JN	**13**	11.05
1-Pentene, 2-methyl-	000763-29-1	84	**2.0**	JN	**6.9**	12.90
Propane, 2-ethoxy-2-methyl-	000637-92-3	102	**0.96**	JN	**4.0**	15.21
Heptane, 4-methyl-	000589-53-7	114	**0.83**	JN	**3.9**	20.37
Unknown hydrocarbon		92	**2.3**	J	**8.7**	22.01
Unknown		92	**1.3**	J	**4.8**	22.84
Unknown hydrocarbon		92	**0.83**	J	**3.1**	23.23
Dodecane	000112-40-3	170	**0.63**	JN	**4.4**	27.63
Limonene	000138-86-3	136	**2.4**	JN	**14**	28.16

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 5-LD

EMSL ID: 491001113-5
Canister ID: S2110

Primary Lab File ID: K5774.D
Analysis Date: 01/10/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	ND	0.50		ND	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**33**	0.50	**E**	**61**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**1.5**	0.50		**3.6**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**2.0**	0.50		**4.7**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 5-LD

EMSL ID: 491001113-5
Canister ID: S2110

Primary Lab File ID: K5774.D
Analysis Date: 01/10/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**0.66**	0.50		**2.5**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	9.9	10	99%

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name: RP-VII N10-
Client Sample ID: 5-LD

EMSL ID: 491001113-5TIC
Canister ID: S2110

Primary Lab File ID: K5774.D
Analysis Date: 01/10/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Propane	000074-98-6	44	**2.6**	JN	**4.7**	4.80
Isobutane	000075-28-5	58	**0.72**	JN	**1.7**	5.21
Butane	000106-97-8	58	**6.7**	JN	**16**	5.62
Unknown		92	**0.95**	J	**3.6**	6.55
Butane, 2-methyl-	000078-78-4	72	**1.0**	JN	**3.0**	7.00
Pentane		92	**0.85**	J	**3.2**	7.82
D-Limonene	005989-27-5	136	**0.51**	JN	**2.8**	28.16

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 6-NW

EMSL ID: 491001113-6
Canister ID: E2314

Primary Lab File ID: K5775.D
Analysis Date: 01/10/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	ND	0.50		ND	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**4.4**	0.50		**8.2**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**0.56**	0.50		**1.4**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**1.2**	0.50		**2.8**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**1.9**	0.50		**6.8**	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-6
Client Sample ID:	6-NW	**Canister ID:**	E2314
Primary Lab File ID:	K5775.D	**Dilution Lab File ID:**	na
Analysis Date:	01/10/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	ND	0.50		ND	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	9.9	10	99%

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-6TIC
Client Sample ID:	6-NW	**Canister ID:**	E2314
Primary Lab File ID:	K5775.D	**Dilution Lab File ID:**	na
Analysis Date:	01/10/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Propane		92	**0.80**	J	**3.0**	4.80
Butane	000106-97-8	58	**0.50**	JN	**1.2**	5.61
Pentane		92	**0.51**	J	**1.9**	7.82

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 7-P

EMSL ID: 491001113-7
Canister ID: E0250

Primary Lab File ID: K5776.D
Analysis Date: 01/11/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	ND	0.50		ND	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**4.2**	0.50		**7.9**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	ND	0.50		ND	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**1.9**	0.50		**4.5**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-7
Client Sample ID:	7-P	**Canister ID:**	E0250
Primary Lab File ID:	K5776.D	**Dilution Lab File ID:**	na
Analysis Date:	01/11/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	ND	0.50		ND	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.1	10	**101%**

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name: RP-VII N10-
Client Sample ID: 7-P

EMSL ID: 491001113-7TIC
Canister ID: E0250

Primary Lab File ID: K5776.D
Analysis Date: 01/11/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Difluorochloromethane	000075-45-6	86	**0.75**	JN	**2.6**	4.81
Nonanal	000124-19-6	142	**0.68**	JN	**3.9**	29.67

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 8-FB
EMSL ID: 491001113-8
Canister ID: E0409

Primary Lab File ID: K5777.D
Analysis Date: 01/11/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	ND	0.50		ND	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**74**	0.50	**E**	**140**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**1.9**	0.50		**4.7**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	ND	0.50		ND	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: RP-VII N10-
Client Sample ID: 8-FB

EMSL ID: 491001113-8
Canister ID: E0409

Primary Lab File ID: K5777.D
Analysis Date: 01/11/2011
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: na
Analysis Date: na
Sample Vol(ml): na
Dilution Factor: na

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	ND	0.50		ND	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.1	10	**101%**

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	RP-VII N10-	**EMSL ID:**	491001113-8TIC
Client Sample ID:	8-FB	**Canister ID:**	E0409
Primary Lab File ID:	K5777.D	**Dilution Lab File ID:**	na
Analysis Date:	01/11/2011	**Analysis Date:**	na
Sample Vol(ml):	250	**Sample Vol(ml):**	na
Dilution Factor:	1	**Dilution Factor:**	na

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
None Found						

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

USEPA TO-15 Data Report

Client	Report Date
GCI Environmental Advisory, Inc 655 Third Ave New York, NY 10017 Attn: James Grond	01/11/11
	Project Receipt Date
	12/24/10
Client Project ID	**EMSL Project ID**
RP-VII N10-	491001113

Sample Summary

EMSL Sample ID	Client Sample ID	Sample Collection Date
491001113-1	1-NW	12/22/2010
491001113-2	2-P	12/22/2010
491001113-3	3-R	12/22/2010
491001113-4	4-CR	12/22/2010
491001113-5	5-LD	12/22/2010
491001113-6	6-NW	12/22/2010
491001113-7	7-P	12/22/2010
491001113-8	8-FB	12/22/2010

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and electronic data has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Marjorie Howley

1/11/2011

Marjorie Howley
TO-15 Laboratory Manager
EMSL Analytical, Inc

Photograph #1 View of East Side - Outside air sample collection area

Photograph #2 View of West Side - Outside air sample collection area

Photograph #3 View of Management Office Conference Room

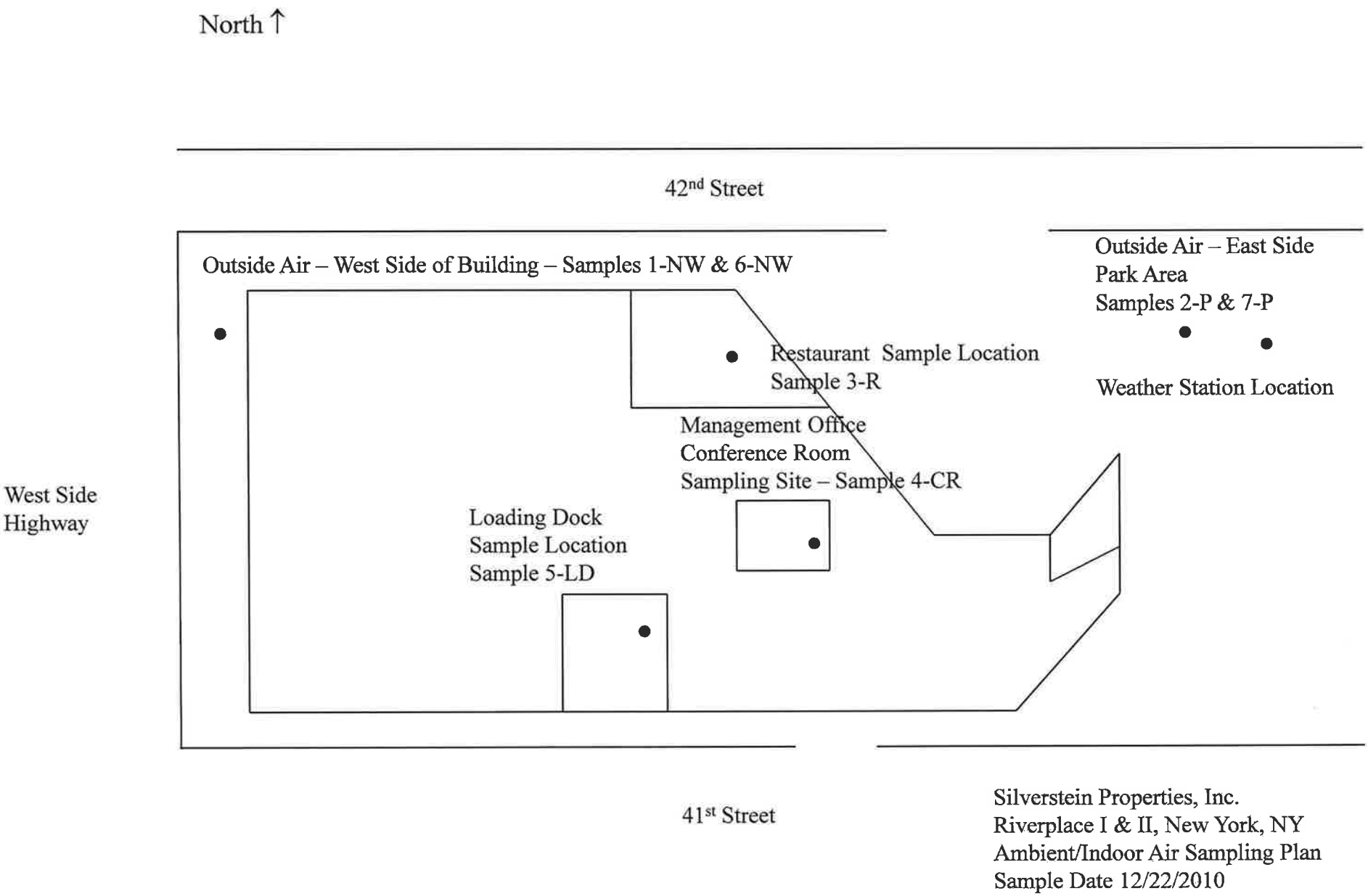
Photograph #4 View of Restaurant Storage Area

Photograph #5 View of Loading Dock Sample

Photograph #6 View of Loading Dock and storage of various materials

RIVERPLACE I & II
SUMMARY OF ENVIRONMENTAL CONDITIONS

Date	Time	Temp Outside	Humidity	Wind Speed	Wind Direction
12/22/10	8:51 am	30.0° F	69%	5.8 mph / Gust 16.1	Variable
12/22/10	9:51 am	32.0° F	64%	9.2 mph	West-Northwest
12/22/10	10:51 am	35.1° F	57%	10.4 mph	West-Northwest
12/22/10	11:51 am	36.0° F	55%	5.8 mph / Gust 16.1	Variable
12/22/10	12:51 am	36.0° F	57%	8.1 mph	West-Northwest



Silverstein Properties, Inc.
Riverplace I & II, New York, NY
Ambient/Indoor Air Sampling Plan
Sample Date 12/22/2010