

February 04, 2010

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

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

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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 41<sup>st</sup> and West 42<sup>nd</sup> Streets and 11<sup>th</sup> and 12<sup>th</sup> Avenues in New York, New York (the "Site"). A Site Location Map is attached as Figure 1. A Site Management Plan (SMP) dated July 2006 has been approved by New York State Department of Environmental Conservation (NYSDEC). A Final Engineering Report (FER) was approved and a Certificate of Completion (COC) was issued on June 19, 2007.

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

Due to on going construction activities the original monitoring wells located on the site were destroyed and were subsequently replaced. A summary of the monitoring well replacement actives is described below.

### **Monitoring Well Replacement**

Due to on going construction activities, both monitoring wells, MW-N and MW-S, were destroyed. On December 28, 2009 Langan was on site to oversee the installation of northern and southern Park Area wells (MW-N2 and MW-S2). These new wells are directly adjacent to the former MW-N and MW-S locations. Borings were advanced using a CME 55 truck mounted drill rig equipped with 4.25-inch inside diameter hollow-stem augers (HSA). Augers were steam cleaned prior to use and dedicated augers were used for each boring. Soil cuttings were

visually inspected for indications of petroleum hydrocarbons and for lithologic description. Soil lithology was described using the Unified Soil Classification System. Lithologic descriptions included soil type, color, grain size/texture, and moisture content. The locations of the re-installed wells are shown on Figure 2. Soil boring and well construction logs are included as Attachment A.

#### **Fourth Quarter 2009 Groundwater Sampling**

On January 7, 2010, Langan sampled wells MW-N2 and MW-S2 to represent the Fourth Quarter 2009 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 B 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 B. 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 25 and 10 gallons were purged from each monitoring well, respectively. After purging, samples MW-N2-1-07-10 and MW-S2 -1-07-10 were collected using a Waterra pump and dedicated tubing.

The groundwater samples, MW-N2-1-07-10 and MW-S2-1-07-10 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, odors or sheen were 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 2009 monitoring event that exceeded the NYSDEC TOGS 1.1.1 AWQS Class GA Standards are summarized below.

| MW-N2                           |                      | MW-S2                           |                          |
|---------------------------------|----------------------|---------------------------------|--------------------------|
| <b><u>VOCs<sup>1</sup></u></b>  |                      | <b><u>VOCs<sup>1</sup></u></b>  |                          |
| • benzene                       | • ethylbenzene       | • benzene                       | • ethylbenzene           |
| • p/m-xylene                    | • naphthalene        | • p/m-xylene                    | • naphthalene            |
| • o-xylene                      | • toluene            | • o-xylene                      | • Isopropylbenzene       |
|                                 |                      | • toluene                       | • p-Isopropylbenzene     |
|                                 |                      | • n-Butylbenzene                | • Methylene chloride     |
|                                 |                      | • N-Propylbenzene               | • 1,3,5-Trimethylbenzene |
|                                 |                      | • 1,2,4-Trimethylbenzene        |                          |
| <b><u>SVOCs<sup>1</sup></u></b> |                      | <b><u>SVOCs<sup>1</sup></u></b> |                          |
| • acenaphthene                  | • 2,4-Dimethylphenol | • naphthalene                   | • phenol                 |
| • naphthalene                   |                      |                                 |                          |
| <b><u>Inorganics</u></b>        |                      | <b><u>Inorganics</u></b>        |                          |
| • iron                          | • magnesium          | • iron                          | • magnesium              |
| • manganese                     | • cyanide            | • manganese                     | • cyanide                |
| • sodium                        |                      | • 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 through Fourth Quarter 2009 sampling rounds are summarized in Tables 1 through 3 and the laboratory analytical report for Fourth Quarter 2009 is included as Attachment C.

Please contact us if you have any questions.

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



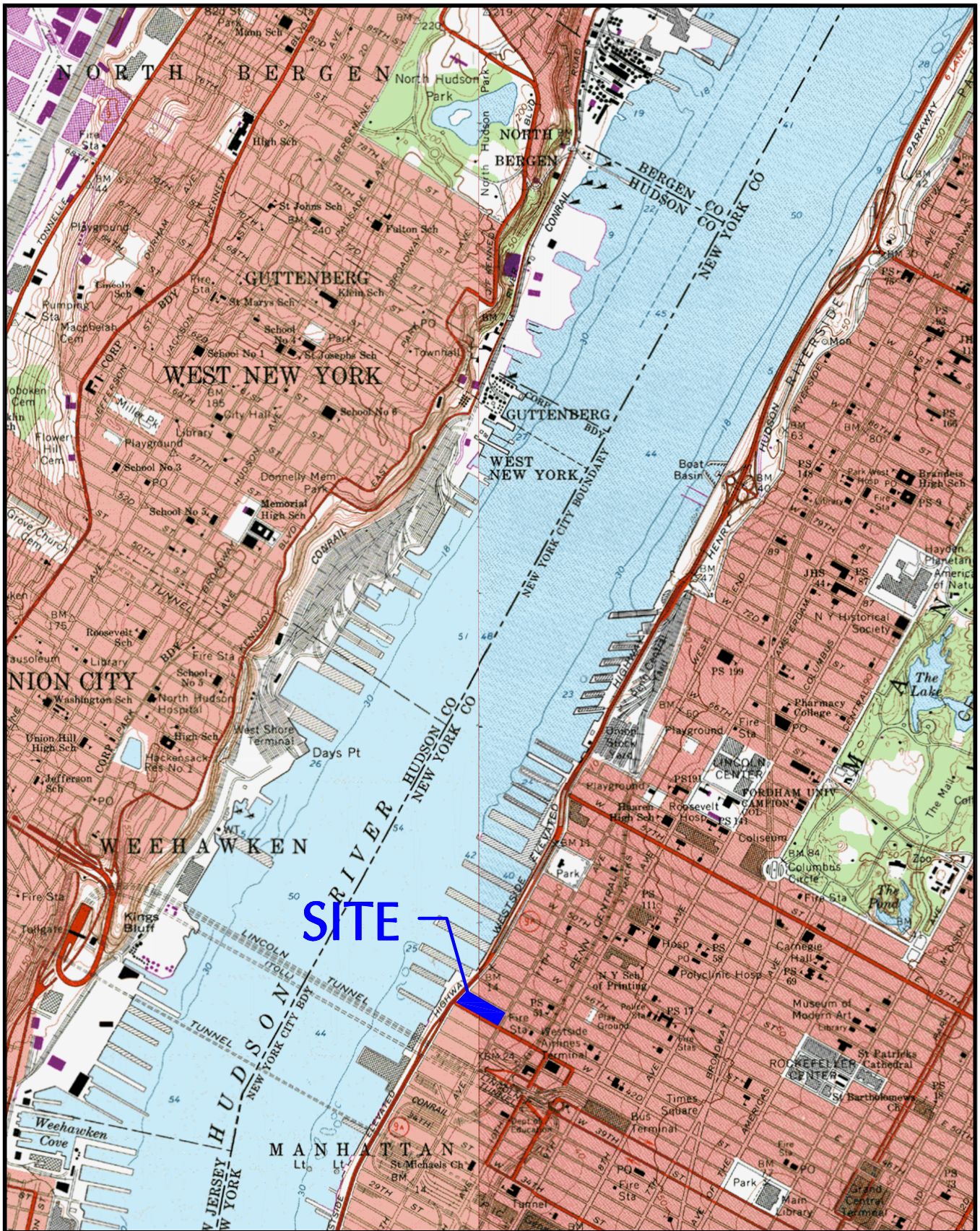
Joel B. Landes, P.E.  
Senior Associate

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 | Well Construction Logs                                             |
| Attachment B | Groundwater Sampling Forms                                         |
| Attachment C | Laboratory Analytical Reports, Chain-of-Custody and Certifications |

cc:

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



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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

NJ Certificate of Authorization No: 24GA27996400

Project

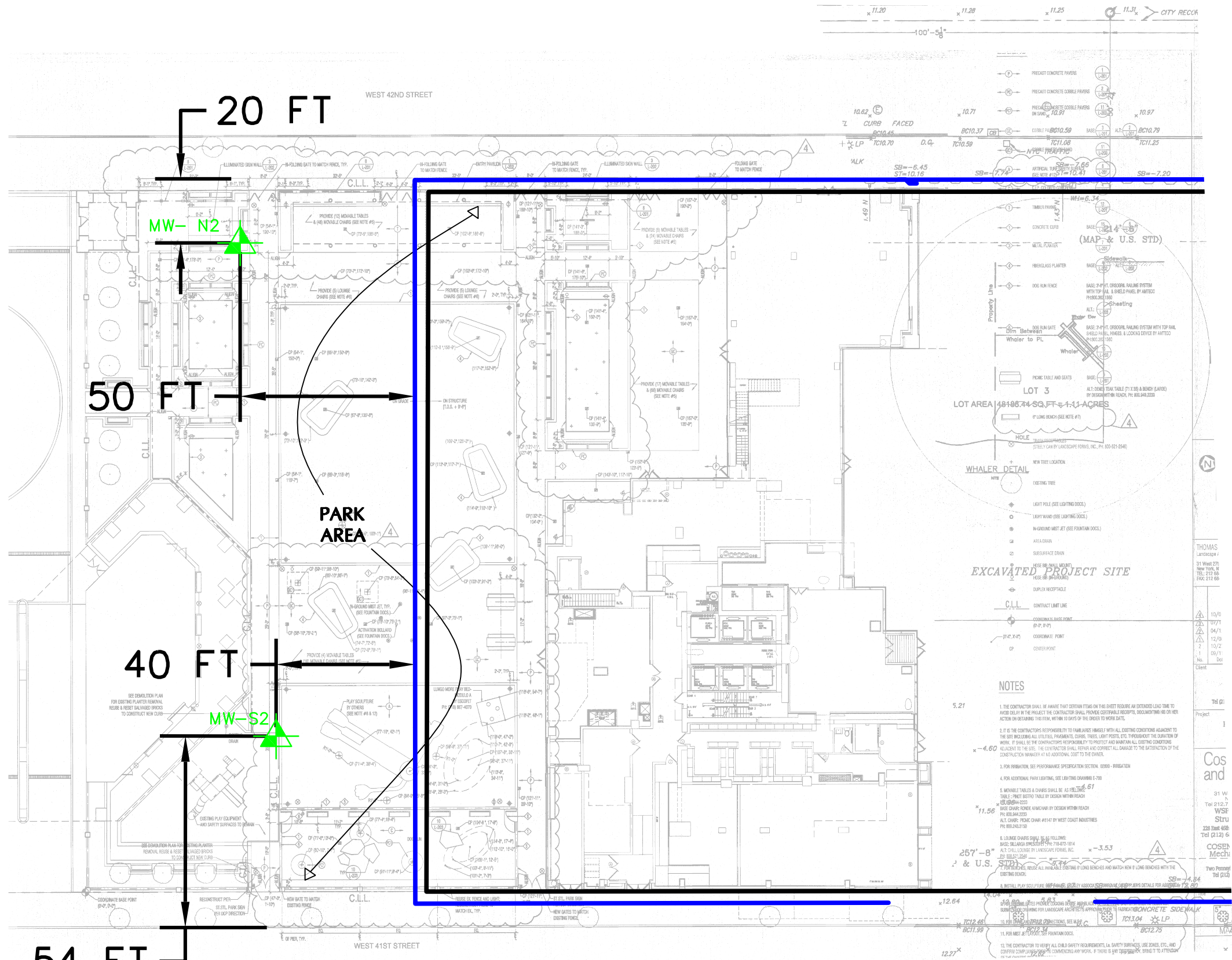
## SITE LOCATION MAP

RIVER PLACE I AND II

NEW YORK

NEW YORK

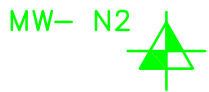
| Project No. | Date     | Scale | Dwg. No. |
|-------------|----------|-------|----------|
| 170040901   | 04/07/09 | NTS   | 1        |



NOTES:

1. BASEMAP TAKEN FROM MANHATTAN-SURVEYING ARCHITECTURAL SURVEY DATED JUNE 3, 2006 AND PARK LAYOUT AND MATERIALS PLAN BY COSTAS KONDYLLIS AND PARTNERS LLP ARCHITECTS DATED OCTOBER 1, 2008.
2. MONITORING WELLS WERE RE-INSTALLED ON DECEMBER 28, 2009. LOCATIONS ARE APPROXIMATE.

LEGEND



APPROXIMATE LOCATION OF MONITORING WELLS IN ACCORDANCE WITH SITE MANAGEMENT PLAN



SHEET PILE WALL



PROPERTY BOUNDARY (RIVER PLACE II)



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NJ Certificate of Authorization No: 24GA27996400

Project

MONITORING WELL LOCATION MAP

RIVER PLACE I & II

NEW YORK

NEW YORK

Project No.  
170040901

Date  
01/21/2010

Scale  
1" = 30'

Dwg. No.  
2

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

|                                                      |                              | Park Area Northern Well                  |                                          |                                          |                                          | Park Area Southern Well*                 |                                         |                                          |                                          | Quality Control                        |                                        |                                        |                                        |                                       |
|------------------------------------------------------|------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|
| SAMPLING DATE<br>LANGAN SAMPLE ID<br>LAB SAMPLE ID   | NYSDEC<br>TOGS 1.1.1<br>AWQS | 1st Quarter                              | 2nd Quarter                              | 3rd Quarter                              | 4th Quarter**                            | 1st Quarter                              | 1st Quarter                             | 2nd Quarter                              | 4th Quarter**                            | 1st Quarter                            | 1st Quarter                            | 2nd Quarter                            | 3rd Quarter                            | 4th Quarter                           |
|                                                      |                              | 3/16/2009<br>MW-N-3-16-09<br>L0903143-01 | 6/17/2009<br>MW-N-6-17-09<br>L0908040-01 | 9/18/2009<br>MW-N-9-18-09<br>L0913185-01 | 1/7/2010<br>MW-N2-1-07-10<br>L1000282-01 | 3/16/2009<br>MW-S-3-16-09<br>L0903143-02 | 3/16/2009<br>DUP-3-16-09<br>L0903143-03 | 6/17/2009<br>MW-S-6-17-09<br>L0908040-02 | 1/7/2010<br>MW-S2-1-07-10<br>L1000282-02 | 3/16/2009<br>FB-3-16-09<br>L0903143-04 | 3/16/2009<br>TRIP BLANK<br>L0903143-05 | 6/17/2009<br>TRIP BLANK<br>L0908040-03 | 6/17/2009<br>TRIP BLANK<br>L0913185-02 | 1/7/2010<br>TRIP BLANK<br>L1000282-03 |
| Volatile Organics by GC/MS (µg/L)<br>Westborough Lab |                              |                                          |                                          |                                          |                                          |                                          | Duplicate of<br>N-3-16-09               |                                          |                                          |                                        |                                        |                                        |                                        |                                       |
| Methylene chloride                                   | 5                            | 2500 U, D <sup>500</sup>                 | 2500 U, D <sup>500</sup>                 | 2500 U                                   | 2500 U                                   | 120 U, D <sup>25</sup>                   | 2500 U, D <sup>500</sup>                | 50 U, D <sup>10</sup>                    | 420 D <sup>10</sup>                      | 5 U                                    | 5 U                                    | 5 U                                    | 0.5 U                                  | 5 U                                   |
| Benzene                                              | 1                            | 19000 D <sup>500</sup>                   | 17000 D <sup>500</sup>                   | 15000 D <sup>500</sup>                   | 2900 D <sup>500</sup>                    | 140 D <sup>25</sup>                      | 19000 D <sup>500</sup>                  | 170 D <sup>10</sup>                      | 200 D <sup>10</sup>                      | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 2.5 U                                  | 0.5 U                                 |
| Toluene                                              | 5                            | 4200 D <sup>500</sup>                    | 4400 D <sup>500</sup>                    | 4100 D <sup>500</sup>                    | 740 D <sup>500</sup>                     | 19 U, D <sup>25</sup>                    | 4000 D <sup>500</sup>                   | 29 D <sup>10</sup>                       | 180 D <sup>10</sup>                      | 0.75 U                                 | 0.75 U                                 | 0.75 U                                 | 2.5 U                                  | 0.75 U                                |
| Ethylbenzene                                         | 5                            | 1900 D <sup>500</sup>                    | 1900 D <sup>500</sup>                    | 1800 D <sup>500</sup>                    | 1400 D <sup>500</sup>                    | 160 D <sup>25</sup>                      | 1900 D <sup>500</sup>                   | 20 D <sup>10</sup>                       | 710 D <sup>10</sup>                      | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 2.5 U                                  | 0.5 U                                 |
| p/m-Xylene                                           | 5                            | 3200 D <sup>500</sup>                    | 3100 D <sup>500</sup>                    | 2900 D <sup>500</sup>                    | 2200 D <sup>500</sup>                    | 50 D <sup>25</sup>                       | 3100 D <sup>500</sup>                   | 21 D <sup>10</sup>                       | 410 D <sup>10</sup>                      | 1 U                                    | 1 U                                    | 1 U                                    | 0.5 U                                  | 1 U                                   |
| o-Xylene                                             | 5                            | 1400 D <sup>500</sup>                    | 1400 D <sup>500</sup>                    | 1200 D <sup>500</sup>                    | 1000 D <sup>500</sup>                    | 43 D <sup>25</sup>                       | 1300 D <sup>500</sup>                   | 16 D <sup>10</sup>                       | 320 D <sup>10</sup>                      | 1 U                                    | 1 U                                    | 1 U                                    | 2 U                                    | 1 U                                   |
| n-Butylbenzene                                       | 5                            | 250 U, D <sup>500</sup>                  | 250 U, D <sup>500</sup>                  | 250 U                                    | 250 U                                    | 12 U, D <sup>25</sup>                    | 250 U, D <sup>500</sup>                 | 5 U, D <sup>10</sup>                     | 6.2 D <sup>10</sup>                      | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 0.5 U                                 |
| Isopropylbenzene                                     | 5                            | 250 U, D <sup>500</sup>                  | 250 U, D <sup>500</sup>                  | 250 U, D <sup>500</sup>                  | 250 U                                    | 35 D <sup>25</sup>                       | 250 U, D <sup>500</sup>                 | 5.4 D <sup>10</sup>                      | 64 D <sup>10</sup>                       | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 1 U                                    | 0.5 U                                 |
| p-Isopropyltoluene                                   | 5                            | 250 U, D <sup>500</sup>                  | 250 U, D <sup>500</sup>                  | 250 U                                    | 250 U                                    | 12 U, D <sup>25</sup>                    | 250 U, D <sup>500</sup>                 | 5 U, D <sup>10</sup>                     | 11 D <sup>10</sup>                       | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 0.5 U                                 |
| Naphthalene                                          | 10                           | 15000 D <sup>500</sup>                   | 18000 D <sup>500</sup>                   | 19000 D <sup>500</sup>                   | 22000 D <sup>500</sup>                   | 610 D <sup>25</sup>                      | 15000 D <sup>500</sup>                  | 350 D <sup>10</sup>                      | 4900 D <sup>10</sup>                     | 2.5 U                                  | 2.5 U                                  | 2.5 U                                  | 1 U                                    | 2.5 U                                 |
| n-Propylbenzene                                      | 5                            | 250 U, D <sup>500</sup>                  | 250 U, D <sup>500</sup>                  | 250 U, D <sup>500</sup>                  | 250 U                                    | 19 D <sup>25</sup>                       | 250 U, D <sup>500</sup>                 | 5 U, D <sup>10</sup>                     | 42 D <sup>10</sup>                       | 0.5 U                                  | 0.5 U                                  | 0.5 U                                  | 2.5 U                                  | 0.5 U                                 |
| 1,3,5-Trimethylbenzene                               | 5                            | 1200 U, D <sup>500</sup>                 | 1200 U, D <sup>500</sup>                 | 1200 U, D <sup>500</sup>                 | 1200 U                                   | 62 U, D <sup>25</sup>                    | 1200 U, D <sup>500</sup>                | 25 U, D <sup>10</sup>                    | 61 D <sup>10</sup>                       | 2.5 U                                  | 2.5 U                                  | 2.5 U                                  | 0.75 U                                 | 2.5 U                                 |
| 1,2,4-Trimethylbenzene                               | 5                            | 1200 U, D <sup>500</sup>                 | 1200 U, D <sup>500</sup>                 | 1200 U, D <sup>500</sup>                 | 1200 U                                   | 76 D <sup>25</sup>                       | 1200 U, D <sup>500</sup>                | 25 U, D <sup>10</sup>                    | 280 D <sup>10</sup>                      | 2.5 U                                  | 2.5 U                                  | 2.5 U                                  | 0.5 U                                  | 2.5 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).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highlighted and BOLD.
- Method Detection Limits (MDLs) are elevated above TOGS criteria in the majority of the samples due to high levels of contamination
- µg/L: Micrograms per liter
- \* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.
- \*\* 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.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the analyte is less than the MDL.  
D<sup>x</sup> - Dillution factor of X

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

|                               |            | Park Area Northern Well |                        |                        |                        | Park Area Southern Well* |                              |              |                          | Quality Control |   |
|-------------------------------|------------|-------------------------|------------------------|------------------------|------------------------|--------------------------|------------------------------|--------------|--------------------------|-----------------|---|
|                               |            | 1st Quarter             | 2nd Quarter            | 3rd Quarter            | 4th Quarter**          | 1st Quarter              | 1st Quarter                  | 2nd Quarter  | 4th Quarter**            | 1st Quarter     |   |
| SAMPLING DATE                 | NYSDEC     | 3/16/2009               | 6/17/2009              | 9/18/2009              | 1/7/2010               | 3/16/2009                | 3/16/2009                    | 6/17/2009    | 1/7/2010                 | 3/16/2009       |   |
| LANGAN SAMPLE ID              | TOGS 1.1.1 | MW-N-3-16-09            | MW-N-6-17-09           | MW-N-9-18-09           | MW-N2-1-7-10           | MW-S-3-16-09             | DUP-3-16-09                  | MW-S-6-17-09 | MW-S2-1-7-10             | FB-3-16-09      |   |
| LAB SAMPLE ID                 | AWQS       | L0903143-01             | L0908040-01            | L0913185-01            | L1000282-01            | L0903143-02              | L0903143-03                  | L0908040-02  | L0908040-02              | L0903143-04     |   |
| Semi-Volatile Organics (µg/L) |            |                         |                        |                        |                        |                          | Duplicate of<br>MW-N-3-16-09 |              |                          |                 |   |
| Westborough Lab               |            |                         |                        |                        |                        |                          |                              |              |                          |                 |   |
| Acenaphthene                  | 20         | 120 D <sup>20</sup>     | 95 D <sup>40</sup>     | 99 D <sup>50</sup>     | 61 D <sup>200</sup>    | 14                       | 160 D <sup>200</sup>         | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Fluoranthene                  | 50         | 28 D <sup>20</sup>      | 10 D <sup>40</sup>     | 14 D <sup>50</sup>     | 40 U, D <sup>200</sup> | 1.6                      | 43 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Naphthalene                   | 10         | 12000 D <sup>400</sup>  | 8900 D <sup>400</sup>  | 9400 D <sup>1000</sup> | 2200 D <sup>200</sup>  | 300 D <sup>10</sup>      | 14000 D <sup>400</sup>       | 0.62         | 11000 D <sup>1000</sup>  | 0.34            |   |
| Bis(2-Ethylhexyl)phthalate    | 5          | 24 U, D <sup>5</sup>    | 26 U, D <sup>5</sup>   | 46 D <sup>5</sup>      | 25 U, D <sup>5</sup>   | 5 U                      | 24 U, D <sup>5</sup>         | 5.1 U        | 5 U                      | 4.8             | U |
| Benzo(a)anthracene            | -          | 8.8 D <sup>20</sup>     | 8.2 U, D <sup>40</sup> | 9.6 U, D <sup>50</sup> | 40 U, D <sup>200</sup> | 0.2 U                    | 39 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Benzo(a)pyrene                | 0          | 7.2 D <sup>20</sup>     | 8.2 U, D <sup>40</sup> | 9.6 U, D <sup>50</sup> | 40 U, D <sup>200</sup> | 0.2 U                    | 39 U, D <sup>5</sup>         | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Benzo(b)fluoranthene          | 0.002      | 8.4 D <sup>20</sup>     | 8.2 U, D <sup>40</sup> | 9.6 U, D <sup>50</sup> | 40 U, D <sup>200</sup> | 0.2 U                    | 39 U, D <sup>5</sup>         | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Chrysene                      | 0.002      | 4.1 D <sup>20</sup>     | 8.2 U, D <sup>40</sup> | 9.6 U, D <sup>50</sup> | 40 U, D <sup>200</sup> | 0.2 U                    | 39 U, D <sup>5</sup>         | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Acenaphthylene                | -          | 49 D <sup>20</sup>      | 38 D <sup>40</sup>     | 42 D <sup>50</sup>     | 40 U, D <sup>200</sup> | 1.4                      | 46 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Anthracene                    | 50         | 18 D <sup>20</sup>      | 9.1 D <sup>40</sup>    | 11 D <sup>50</sup>     | 40 U, D <sup>200</sup> | 1.6                      | 39 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Benzo(ghi)perylene            | -          | 3.9 U, D <sup>20</sup>  | 8.2 U, D <sup>40</sup> | 9.6 U, D <sup>50</sup> | 40 U, D <sup>200</sup> | 0.2 U                    | 39 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Fluorene                      | 50         | 56 D <sup>20</sup>      | 59 D <sup>40</sup>     | 47 D <sup>50</sup>     | 40 U, D <sup>200</sup> | 8.9                      | 80 D <sup>5</sup>            | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Phenanthrene                  | 50         | 100 D <sup>20</sup>     | 53 D <sup>40</sup>     | 62 D <sup>50</sup>     | 40 D <sup>200</sup>    | 11                       | 150 D <sup>5</sup>           | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Dibenzo(a,h)anthracene        | -          | 3.9 U, D <sup>20</sup>  | 8.2 U, D <sup>40</sup> | 9.6 U, D <sup>50</sup> | 40 U, D <sup>200</sup> | 0.2 U                    | 39 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Pyrene                        | 50         | 22 D <sup>20</sup>      | 8.2 U, D <sup>40</sup> | 10 D <sup>50</sup>     | 40 U, D <sup>200</sup> | 1.2                      | 39 D <sup>200</sup>          | 0.2 U        | 200 U, D <sup>1000</sup> | 0.19            | U |
| Biphenyl                      | -          | 50 D <sup>5</sup>       | 26 U, D <sup>5</sup>   | 36 D <sup>5</sup>      | 72 D <sup>5</sup>      | 8.5                      | 56 D <sup>5</sup>            | 5.1 U        | 49                       | 4.8             | U |
| Dibenzofuran                  | -          | 91 D <sup>5</sup>       | 36 D <sup>5</sup>      | 56 D <sup>5</sup>      | 120 D <sup>5</sup>     | 8.6                      | 95 D <sup>5</sup>            | 5.1 U        | 27                       | 4.8             | U |
| 2-Methylnaphthalene           | -          | 460 D <sup>20</sup>     | 330 D <sup>40</sup>    | 340 D <sup>50</sup>    | 230 D <sup>200</sup>   | 21                       | 550 D <sup>200</sup>         | 0.2 U        | 490 D <sup>1000</sup>    | 0.19            | U |
| 2,4-Dimethylphenol            | 50         | 1800 D <sup>50</sup>    | 830 D <sup>5</sup>     | 1200 D <sup>100</sup>  | 270 D <sup>5</sup>     | 10 U                     | 1800 D <sup>25</sup>         | 10 U         | 10 U                     | 9.6             | U |
| Phenol                        | 1          | 120 D <sup>5</sup>      | 61 D <sup>5</sup>      | 87 D <sup>5</sup>      | 35 U, D <sup>5</sup>   | 7 U                      | 110 D <sup>5</sup>           | 7.2 U        | 7.7                      | 6.7             | U |
| 2-Methylphenol                | -          | 440 D <sup>5</sup>      | 200 D <sup>5</sup>     | 290 D <sup>5</sup>     | 87 D <sup>5</sup>      | 6 U                      | 420 D <sup>5</sup>           | 6.2 U        | 6.9                      | 5.8             | U |
| 3-Methylphenol/4-Methylphenol | -          | 140 D <sup>5</sup>      | 70 D <sup>5</sup>      | 110 D <sup>5</sup>     | 62 D <sup>5</sup>      | 6 U                      | 130 D <sup>5</sup>           | 6.2 U        | 9.4                      | 5.8             | U |
| Carbazole                     | -          | 250 D <sup>5</sup>      | 150 D <sup>5</sup>     | 270 D <sup>5</sup>     | 210 D <sup>5</sup>     | 15                       | 250 D <sup>5</sup>           | 5.1 U        | 81                       | 4.8             | U |

Notes:

- Groundwater samples were compared to New York State Department of Environmental Conservation Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS)
- NYSDEC TOGS exceedances are highlighted and BOLD
- Method Detection Limits (MDLs) exceeding NYSDEC TOGS 1.1.1 AWQS are likely the result of elevated analyte concentrations.
- A select subset of VOCs were run twice, once by Gas Chromatography/Mass Spectrometry (GC/MS) and once by Selected Ion Monitoring (SIM) analysis, per standard laboratory practice. For these select compounds, the SIM results are reported.
- ug/L: Micrograms per Liter

\* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

\*\* 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 of Figure 2.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the analyte is less than the MDL.

D<sup>X</sup> - Dillution factor of X

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

|                                       |            | Park Area Northern Well |                    |                    |                     | Park Area Southern Well* |                              |                     |                      | Quality Control     |
|---------------------------------------|------------|-------------------------|--------------------|--------------------|---------------------|--------------------------|------------------------------|---------------------|----------------------|---------------------|
|                                       |            | 1st Quarter             | 2nd Quarter        | 3rd Quarter        | 4th Quarter**       | 1st Quarter              | 1st Quarter                  | 2nd Quarter         | 4th Quarter**        | 1st Quarter         |
| LANGAN SAMPLE ID                      | NYSDEC     | MW-N-3-16-09            | MW-N-6-17-09       | MW-N-9/18/09       | MW-N2-1-7-2010      | MW-S-3-16-09             | DUP-3-16-09                  | MW-S-6-17-09        | MW-S2-1-7-2010       | FB-3-16-09          |
| SAMPLING DATE                         | TOGS 1.1.1 | 3/16/2009               | 6/17/2009          | 9/18/2009          | 1/7/2010            | 3/16/2009                | 3/16/2009                    | 6/17/2009           | 1/7/2010             | 3/16/2009           |
| LAB SAMPLE ID                         | AWQS       | L0903143-01             | L0908040-01        | L0913185-01        | L1000282-01         | L0903143-02              | L0903143-03                  | L0908040-02         | L1000282-02          | L0903143-04         |
| Total Metals (µg/L)<br>Wesborough Lab |            |                         |                    |                    |                     |                          | Duplicate of<br>MW-N-3-16-09 |                     |                      |                     |
| Aluminum, Total                       | -          | 2600                    | 380                | 220                | 1500                | 12000                    | 1200                         | 3300                | 700                  | 100 U               |
| Antimony, Total                       | 3          | 50 U                    | 0.5 U              | 0.5 U              | 2 U, D <sup>4</sup> | 50 U                     | 50 U                         | 0.6                 | 2 U, D <sup>4</sup>  | 50 U                |
| Arsenic, Total                        | 25         | 15                      | 15                 | 15                 | 11                  | 20                       | 17                           | 6                   | 17                   | 5 U                 |
| Barium, Total                         | 1000       | 98                      | 71                 | 70                 | 104                 | 212                      | 82                           | 99                  | 198                  | 10 U                |
| Calcium, Total                        | -          | 400000                  | 400000             | 410000             | 180000              | 140000                   | 360000                       | 130000              | 210000               | 100 U               |
| Chromium, Total                       | 50         | 10 U                    | 10 U               | 10 U               | 10 U                | 20                       | 10 U                         | 10 U                | 10 U                 | 10 U                |
| Copper, Total                         | 200        | 10 U                    | 10 U               | 10 U               | 10 U                | 32                       | 10 U                         | 10 U                | 10 U                 | 10 U                |
| Iron, Total                           | 300        | 5300                    | 1900               | 1200               | 3500                | 21000                    | 2700                         | 9200                | 3200                 | 50 U                |
| Lead, Total                           | 25         | 15                      | 10 U               | 10 U               | 10 U                | 158                      | 10 U                         | 45                  | 17                   | 10 U                |
| Magnesium, Total                      | 35000      | 70000                   | 70000              | 59000              | 83000               | 71000                    | 72000                        | 48000               | 120000               | 100 U               |
| Manganese, Total                      | 300        | 1570                    | 1570               | 1340               | 746                 | 598                      | 1430                         | 403                 | 327                  | 10 U                |
| Mercury, Total                        | 0.7        | 0.2 U                   | 0.2 U              | 0.2 U              | 0.2 U               | 0.5                      | 0.2 U                        | 0.2 U               | 0.3                  | 0.2 U               |
| Nickel, Total                         | 100        | 25 U                    | 25 U               | 25 U               | 25 U                | 25 U                     | 25 U                         | 37                  | 25 U                 | 25 U                |
| Potassium, Total                      | -          | 29000                   | 48000              | 31000              | 47000               | 25000                    | 31000                        | 29000               | 34000                | 2500 U              |
| Sodium, Total                         | 20000      | 300000 D <sup>b</sup>   | 270000             | 250000             | 240000              | 96000                    | 320000 D <sup>b</sup>        | 100000              | 98000                | 2000 U              |
| Vanadium, Total                       | -          | 10 U                    | 10 U               | 10 U               | 10 U                | 25                       | 10 U                         | 10 U                | 10 U                 | 10 U                |
| Zinc, Total                           | 2000       | 50 U                    | 50 U               | 50 U               | 50 U                | 75                       | 50 U                         | 50 U                | 50 U                 | 50 U                |
| Cyanide (ug/L) - Wesborough Lab       |            |                         |                    |                    |                     |                          |                              |                     |                      |                     |
| Cyanide, Total                        | 200        | 1100 D <sup>10</sup>    | 789 D <sup>5</sup> | 799 D <sup>2</sup> | 890 D <sup>10</sup> | 1920 D <sup>10</sup>     | 1090 D <sup>10</sup>         | 1920 D <sup>5</sup> | 1090 D <sup>10</sup> | 5 U, D <sup>5</sup> |
| Cyanide, Physiologically              | -          | 286                     | 177                | 185                | 228                 | 1070 D <sup>b</sup>      | 241                          | 1350 D <sup>b</sup> | 353                  | 5 U, D <sup>5</sup> |

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).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highlighted and **BOLD**.
- Method Detection Limits (MDLs) exceeding NYSDEC TOGS 1.1.1 AWQS are likely the result of elevated analyte concentrations.
- µg/L: Micrograms per liter
- \* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.
- \*\* 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.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the analyte is less than the MDL.  
D<sup>x</sup> - Dillution factor of X

## **ATTACHMENT A**

### **Soil Boring and Well Construction Logs**

# WELL CONSTRUCTION SUMMARY

Well No. MW-N2

|                                                                                                                                                                                                                                                     |                  |                                |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|-------------------|
| <b>PROJECT</b><br>River Place                                                                                                                                                                                                                       |                  |                                | <b>PROJECT NO.</b><br>170040901                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>LOCATION</b><br>W. 42nd Street and 11th Avenue, NY, NY                                                                                                                                                                                           |                  |                                | <b>ELEVATION AND DATUM</b>                                                                                                                                                                                                                                                                                              |  |                                    |                   |
| <b>DRILLING AGENCY</b><br>ADT                                                                                                                                                                                                                       |                  |                                | <b>DATE STARTED</b><br>2/28/2009                                                                                                                                                                                                                                                                                        |  | <b>DATE FINISHED</b><br>2/28/2009  |                   |
| <b>DRILLING EQUIPMENT</b><br>CME 55                                                                                                                                                                                                                 |                  |                                | <b>DRILLER</b><br>ADT                                                                                                                                                                                                                                                                                                   |  |                                    |                   |
| <b>SIZE AND TYPE OF BIT</b><br>4.5 ID Hollow Stem Augers                                                                                                                                                                                            |                  |                                | <b>INSPECTOR</b><br>J. Good                                                                                                                                                                                                                                                                                             |  |                                    |                   |
| <b>METHOD OF INSTALLATION</b><br><br>Drilled boring to 22 ft, backfilled with silica sand to 20 ft bgs, set 2" PVC well at 20 ft bgs with 15 ft of screen and 5 ft of riser. Silica sand to 2' above screen with 1' bentonite seal above sand pack. |                  |                                |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>METHOD OF WELL DEVELOPMENT</b><br><br>Wattera pump used to purge well                                                                                                                                                                            |                  |                                |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>TYPE OF CASING</b><br>Schedule 40 PVC                                                                                                                                                                                                            |                  | <b>DIAMETER</b><br>2 inch      | <b>TYPE OF BACKFILL MATERIAL</b><br>10-20 Silica Sand                                                                                                                                                                                                                                                                   |  |                                    |                   |
| <b>TYPE OF SCREEN</b><br>10 Slot                                                                                                                                                                                                                    |                  | <b>DIAMETER</b><br>2 inch      | <b>TYPE OF SEAL MATERIAL</b><br>Bentonite                                                                                                                                                                                                                                                                               |  |                                    |                   |
| <b>BOREHOLE DIAMETER</b><br>8.5 inch                                                                                                                                                                                                                |                  |                                |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>TOP OF CASING</b>                                                                                                                                                                                                                                | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>0         | <p>The diagram illustrates the well construction from the surface down to 22 feet. It shows a 2-inch PVC casing with a 2-inch riser. A 10-slot screen is located between 20 and 22 feet. A bentonite seal is placed above the screen. A sand pack is located below the screen. The well is filled with silica sand.</p> |  | <b>SUMMARY SOIL CLASSIFICATION</b> | <b>DEPTH (FT)</b> |
| <b>TOP OF SEAL</b>                                                                                                                                                                                                                                  | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>2         |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>TOP OF FILTER</b>                                                                                                                                                                                                                                | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>3         |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>TOP OF SCREEN</b>                                                                                                                                                                                                                                | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>5         |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>BOTTOM OF BORING</b>                                                                                                                                                                                                                             | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>22        |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>SCREEN LENGTH</b>                                                                                                                                                                                                                                |                  | <b>(ft)</b><br>15              |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>SLOT SIZE</b>                                                                                                                                                                                                                                    |                  | 10                             |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>GROUNDWATER ELEVATIONS</b>                                                                                                                                                                                                                       |                  |                                |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b><br>10 ft |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |
| <b>LANGAN Engineering and Environmental Services, Inc.</b><br>21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727                                                                                                         |                  |                                |                                                                                                                                                                                                                                                                                                                         |  |                                    |                   |

# WELL CONSTRUCTION SUMMARY

Well No. MW-S2

|                                                                                                                                                                                                                                                     |                  |                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------|
| <b>PROJECT</b><br>River Place                                                                                                                                                                                                                       |                  |                                | <b>PROJECT NO.</b><br>170040901                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>LOCATION</b><br>W. 42nd Street and 11th Avenue, NY, NY                                                                                                                                                                                           |                  |                                | <b>ELEVATION AND DATUM</b>                                                                                                                                                                                                                                                                                                       |                                                                                |                                    |
| <b>DRILLING AGENCY</b><br>ADT                                                                                                                                                                                                                       |                  |                                | <b>DATE STARTED</b><br>12/28/2009                                                                                                                                                                                                                                                                                                |                                                                                | <b>DATE FINISHED</b><br>12/28/2009 |
| <b>DRILLING EQUIPMENT</b><br>CME 55                                                                                                                                                                                                                 |                  |                                | <b>DRILLER</b><br>ADT                                                                                                                                                                                                                                                                                                            |                                                                                |                                    |
| <b>SIZE AND TYPE OF BIT</b><br>4.5 ID 6 1/4 OD Hollow Stem Augers                                                                                                                                                                                   |                  |                                | <b>INSPECTOR</b><br>J. Good                                                                                                                                                                                                                                                                                                      |                                                                                |                                    |
| <b>METHOD OF INSTALLATION</b><br><br>Drilled boring to 22 ft, backfilled with silica sand to 20 ft bgs, set 2" PVC well at 20 ft bgs with 15 ft of screen and 5 ft of riser. Silica sand to 2' above screen with 1' bentonite seal above sand pack. |                  |                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>METHOD OF WELL DEVELOPMENT</b><br><br>Wattera Pump used to purge well                                                                                                                                                                            |                  |                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>TYPE OF CASING</b><br>Schedule 40 PVC                                                                                                                                                                                                            |                  | <b>DIAMETER</b><br>2 inch      | <b>TYPE OF BACKFILL MATERIAL</b><br>10-20 Silica Sand                                                                                                                                                                                                                                                                            |                                                                                |                                    |
| <b>TYPE OF SCREEN</b><br>10 Slot                                                                                                                                                                                                                    |                  | <b>DIAMETER</b><br>2 inch      | <b>TYPE OF SEAL MATERIAL</b><br>Bentonite                                                                                                                                                                                                                                                                                        |                                                                                |                                    |
| <b>BOREHOLE DIAMETER</b><br>8.5 inch                                                                                                                                                                                                                |                  |                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>TOP OF CASING</b>                                                                                                                                                                                                                                | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>0         | <p>The diagram illustrates the well construction from the surface down to 22 feet. It shows a 2-inch diameter casing with a 2-inch riser. A 15-foot screen is installed at the bottom. A 1-foot bentonite seal is located above the screen, and a sand pack is placed below the screen. The well is filled with silica sand.</p> | <b>SUMMARY SOIL CLASSIFICATION</b>                                             | <b>DEPTH (FT)</b>                  |
| <b>TOP OF SEAL</b>                                                                                                                                                                                                                                  | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>2         |                                                                                                                                                                                                                                                                                                                                  | Brown medium grain sand with some silt, and gravel, and trace wood (Fill), Dry | 0-5                                |
| <b>TOP OF FILTER</b>                                                                                                                                                                                                                                | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>3         |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>TOP OF SCREEN</b>                                                                                                                                                                                                                                | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>5         |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>BOTTOM OF BORING</b>                                                                                                                                                                                                                             | <b>ELEVATION</b> | <b>DEPTH (ft)</b><br>22        |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>SCREEN LENGTH</b>                                                                                                                                                                                                                                |                  | <b>(ft)</b><br>15              |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>SLOT SIZE</b><br>10                                                                                                                                                                                                                              |                  |                                |                                                                                                                                                                                                                                                                                                                                  | MGP impacted black medium sand with some gravel and wood (Fill), Wet           | 5-10                               |
| <b>GROUNDWATER ELEVATIONS</b>                                                                                                                                                                                                                       |                  |                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b><br>10 ft |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          | MGP impact medium to fine grain clay with some sand and silt, Wet                                                                                                                                                                                                                                                                | 10-22                                                                          |                                    |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>ELEVATION</b>                                                                                                                                                                                                                                    | <b>DATE</b>      | <b>DEPTH TO WATER</b>          |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |
| <b>LANGAN Engineering and Environmental Services, Inc.</b><br>21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727                                                                                                         |                  |                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                    |

## **ATTACHMENT B**

### **Groundwater Sampling Forms**

# GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place

|                 |       |
|-----------------|-------|
| Well#/Location: | MW-N2 |
|-----------------|-------|

|         |           |
|---------|-----------|
| Job No. | 170040901 |
|---------|-----------|

Date: 1/07/10

Weather: 35° Sunny

**Sampling Personnel:** J. Good

| Well Information |  |
|------------------|--|
| Well Name        |  |
| Well Number      |  |
| Well Type        |  |
| Well Status      |  |
| Well Location    |  |
| Well Depth       |  |
| Well Completion  |  |
| Well Production  |  |
| Well Injection   |  |
| Well Monitoring  |  |
| Well Maintenance |  |
| Well History     |  |
| Well Notes       |  |

|                        |               |
|------------------------|---------------|
| Sample ID              | MW-N2-1-07-10 |
| Well Depth (ft)        | 19.7          |
| Screened Interval (ft) |               |
| Casing Elevation (msl) |               |
| Casing Diameter (in)   |               |
| Depth to Water (ft)    | 9.8           |
| Water Elevation (msl)  |               |
| Casing Volume (gal)    |               |
| PID/FID Reading (ppm)  |               |

### Purging Information

|                         |               |          |
|-------------------------|---------------|----------|
| Purging Method          | Wattera Pump  |          |
| Purging Rate (l/m; gpm) |               |          |
| Start Purge Time        | 8:00 AM       | 12:30 AM |
| End Purge Time          | 10:30 AM      | 2:05 PM  |
| Volume Purged (gal)     | Approx 25 gal |          |

### Sampling Information

|                            |              |
|----------------------------|--------------|
| Sampling Method            | Wettera Pump |
| Start Sampling Time        | 2:05 PM      |
| End Sampling Time          | 2:20 PM      |
| Depth Before Sampling (ft) | 10.0         |
| Number Bottles Collected   |              |

|  | Parameters |
|--|------------|
|--|------------|

[illegible]

|               |  |
|---------------|--|
| Notes/Remarks |  |
|---------------|--|

Monitoring well was purged from 8:00 AM until 10:30 AM. Purged water was still cloudy. Monitoring well was left to sit until 12:30 PM before purging again until 2:05 PM. Once clear, the well was sampled.



# GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place

|                        |       |
|------------------------|-------|
| <b>Well#/Location:</b> | MW-S2 |
|------------------------|-------|

|         |           |
|---------|-----------|
| Job No. | 170040901 |
|---------|-----------|

Date: 1/07/10

**Weather:** 35° Sunny

**Sampling Personnel:** J. Good

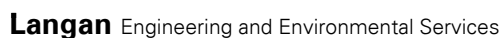
| Well Information       |                |
|------------------------|----------------|
| Sample ID              | MW -S2-1-07-10 |
| Well Depth (ft)        | 19.89          |
| Screened Interval (ft) |                |
| Casing Elevation (msl) |                |
| Casing Diameter (in)   |                |
| Depth to Water (ft)    | 9.2            |
| Water Elevation (msl)  |                |
| Casing Volume (gal)    |                |
| PID/FID Reading (ppm)  |                |

| Purging Information     |               |
|-------------------------|---------------|
| Purging Method          | Wattera Pump  |
| Purging Rate (l/m; gpm) |               |
| Start Purge Time        | 10:45 AM      |
| End Purge Time          | 12:15 PM      |
| Volume Purged (gal)     | Approx 10 gal |

| Sampling Information       |              |
|----------------------------|--------------|
| Sampling Method            | Wettera Pump |
| Start Sampling Time        | 12:15 PM     |
| End Sampling Time          | 12:25 PM     |
| Depth Before Sampling (ft) | 9.5          |
| Number Bottles Collected   |              |

[illegible]

| Notes/Remarks |  |
|---------------|--|
|               |  |



## **ATTACHMENT C**

**Laboratory Analytical Reports,  
Chain-of-Custody and Certifications  
(CD Enclosed)**



## ANALYTICAL REPORT

|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| Lab Number:     | L1000282                                                                                     |
| Client:         | Langan Engineering and Environmental<br>Ser<br>21 Penn Plaza 360 W. 31st Street<br>8th Floor |
| ATTN:           | New York, NY 10001-2727<br>Jason Hayes                                                       |
| Project Name:   | RIVER PLACE                                                                                  |
| Project Number: | 170040901                                                                                    |
| Report Date:    | 01/14/10                                                                                     |

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.

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



**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b>    | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> |
|----------------------------|---------------------|----------------------------|---------------------------------|
| L1000282-01                | MW-N2-1-7-2010      | NY, NY                     | 01/07/10 14:05                  |
| L1000282-02                | MW-S2-1-7-2010      | NY, NY                     | 01/07/10 12:15                  |
| L1000282-03                | TRIP BLANK-1-7-2010 | NY, NY                     | 01/07/10 00:00                  |

**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

### 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.

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.

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#### Volatile Organics

L1000282-03: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

L1000282-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

L1000282-02 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

### Case Narrative (continued)

#### Semivolatile Organics

L1000282-01 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

#### Semivolatile Organics-SIM

L1000282-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

The surrogate recoveries for L1000282-01 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 at 0%) due to the dilutions required to quantitate the samples. Re-extraction is not required; therefore, the results of the original analysis are reported.

#### Metals

L1000282-01 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 was not achieved for Thallium.

The WG395992-4 Matrix Spike recoveries associated with L1000282-01 are outside the acceptance criteria for Aluminum (130%) and Selenium (70%). A post digestion spike was performed with acceptable recoveries of Aluminum (115%) and Selenium (108%).

The WG395992-4 Matrix Spike recoveries associated with L1000282-01 for Potassium (140%) and Sodium (0%) are invalid because the sample concentration is greater than four times the spike amount added.

The WG395992-3 Laboratory Duplicate RPD associated with L1000282-01 is above the acceptance criteria for Arsenic (21%); however, the sample and duplicate results are less than five times the reporting limit.

Therefore, the RPD is valid.

#### Cyanide, Total

L1000282-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results

**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

### Case Narrative (continued)

within the calibration range.

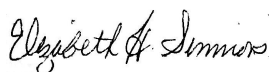
The WG395921-3/-4 MS/MSD recoveries (55%/65%) associated with L1000282-02, are invalid because the sample concentration is greater than four times the spike amount added.

Cyanide, Physiologically Available

The WG395919-4 Laboratory Duplicate RPD (49%) associated with L1000282-02 is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 01/14/10

# ORGANICS

# VOLATILES

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-01  
**Client ID:** MW-N2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8260B  
**Analytical Date:** 01/12/10 13:19  
**Analyst:** PD

**Date Collected:** 01/07/10 14:05  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified

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

**Volatile Organics by GC/MS - Westborough Lab**

|                           |      |  |      |      |     |
|---------------------------|------|--|------|------|-----|
| Methylene chloride        | ND   |  | ug/l | 2500 | 500 |
| 1,1-Dichloroethane        | ND   |  | ug/l | 380  | 500 |
| Chloroform                | ND   |  | ug/l | 380  | 500 |
| Carbon tetrachloride      | ND   |  | ug/l | 250  | 500 |
| 1,2-Dichloropropane       | ND   |  | ug/l | 880  | 500 |
| Dibromochloromethane      | ND   |  | ug/l | 250  | 500 |
| 1,1,2-Trichloroethane     | ND   |  | ug/l | 380  | 500 |
| Tetrachloroethene         | ND   |  | ug/l | 250  | 500 |
| Chlorobenzene             | ND   |  | ug/l | 250  | 500 |
| Trichlorofluoromethane    | ND   |  | ug/l | 1200 | 500 |
| 1,2-Dichloroethane        | ND   |  | ug/l | 250  | 500 |
| 1,1,1-Trichloroethane     | ND   |  | ug/l | 250  | 500 |
| Bromodichloromethane      | ND   |  | ug/l | 250  | 500 |
| trans-1,3-Dichloropropene | ND   |  | ug/l | 250  | 500 |
| cis-1,3-Dichloropropene   | ND   |  | ug/l | 250  | 500 |
| 1,1-Dichloropropene       | ND   |  | ug/l | 1200 | 500 |
| Bromoform                 | ND   |  | ug/l | 1000 | 500 |
| 1,1,2,2-Tetrachloroethane | ND   |  | ug/l | 250  | 500 |
| Benzene                   | 2900 |  | ug/l | 250  | 500 |
| Toluene                   | 740  |  | ug/l | 380  | 500 |
| Ethylbenzene              | 1400 |  | ug/l | 250  | 500 |
| Chloromethane             | ND   |  | ug/l | 1200 | 500 |
| Bromomethane              | ND   |  | ug/l | 500  | 500 |
| Vinyl chloride            | ND   |  | ug/l | 500  | 500 |
| Chloroethane              | ND   |  | ug/l | 500  | 500 |
| 1,1-Dichloroethene        | ND   |  | ug/l | 250  | 500 |
| trans-1,2-Dichloroethene  | ND   |  | ug/l | 380  | 500 |
| Trichloroethene           | ND   |  | ug/l | 250  | 500 |
| 1,2-Dichlorobenzene       | ND   |  | ug/l | 1200 | 500 |
| 1,3-Dichlorobenzene       | ND   |  | ug/l | 1200 | 500 |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS****Lab ID:** L1000282-01**Date Collected:** 01/07/10 14:05**Client ID:** MW-N2-1-7-2010**Date Received:** 01/07/10**Sample Location:** NY, NY**Field Prep:** Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |                 |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 1200 | 500             |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 500  | 500             |
| p/m-Xylene                                   | 2200   |           | ug/l  | 500  | 500             |
| o-Xylene                                     | 1000   |           | ug/l  | 500  | 500             |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 250  | 500             |
| Dibromomethane                               | ND     |           | ug/l  | 2500 | 500             |
| 1,2,3-Trichloropropane                       | ND     |           | ug/l  | 2500 | 500             |
| Acrylonitrile                                | ND     |           | ug/l  | 2500 | 500             |
| Styrene                                      | ND     |           | ug/l  | 500  | 500             |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 2500 | 500             |
| Acetone                                      | ND     |           | ug/l  | 2500 | 500             |
| Carbon disulfide                             | ND     |           | ug/l  | 2500 | 500             |
| 2-Butanone                                   | ND     |           | ug/l  | 2500 | 500             |
| Vinyl acetate                                | ND     |           | ug/l  | 2500 | 500             |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 2500 | 500             |
| 2-Hexanone                                   | ND     |           | ug/l  | 2500 | 500             |
| Bromochloromethane                           | ND     |           | ug/l  | 1200 | 500             |
| 2,2-Dichloropropane                          | ND     |           | ug/l  | 1200 | 500             |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 1000 | 500             |
| 1,3-Dichloropropane                          | ND     |           | ug/l  | 1200 | 500             |
| 1,1,1,2-Tetrachloroethane                    | ND     |           | ug/l  | 250  | 500             |
| Bromobenzene                                 | ND     |           | ug/l  | 1200 | 500             |
| n-Butylbenzene                               | ND     |           | ug/l  | 250  | 500             |
| sec-Butylbenzene                             | ND     |           | ug/l  | 250  | 500             |
| tert-Butylbenzene                            | ND     |           | ug/l  | 1200 | 500             |
| o-Chlorotoluene                              | ND     |           | ug/l  | 1200 | 500             |
| p-Chlorotoluene                              | ND     |           | ug/l  | 1200 | 500             |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 1200 | 500             |
| Hexachlorobutadiene                          | ND     |           | ug/l  | 300  | 500             |
| Isopropylbenzene                             | ND     |           | ug/l  | 250  | 500             |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 250  | 500             |
| Naphthalene                                  | 22000  |           | ug/l  | 1200 | 500             |
| n-Propylbenzene                              | ND     |           | ug/l  | 250  | 500             |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 1200 | 500             |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 1200 | 500             |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 1200 | 500             |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 1200 | 500             |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

Lab ID: L1000282-01

Date Collected: 01/07/10 14:05

Client ID: MW-N2-1-7-2010

Date Received: 01/07/10

Sample Location: NY, NY

Field Prep: Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |                 |
| 1,4-Diethylbenzene                           | ND     |           | ug/l  | 1000 | 500             |
| 4-Ethyltoluene                               | ND     |           | ug/l  | 1000 | 500             |
| 1,2,4,5-Tetramethylbenzene                   | ND     |           | ug/l  | 1000 | 500             |
| Ethyl ether                                  | ND     |           | ug/l  | 1200 | 500             |
| trans-1,4-Dichloro-2-butene                  | ND     |           | ug/l  | 1200 | 500             |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99         |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 96         |           | 70-130              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-02  
**Client ID:** MW-S2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8260B  
**Analytical Date:** 01/12/10 12:44  
**Analyst:** PD

**Date Collected:** 01/07/10 12:15  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |                 |
| Methylene chloride                           | 420    |           | ug/l  | 50  | 10              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 7.5 | 10              |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 10              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 18  | 10              |
| Dibromochloromethane                         | ND     |           | ug/l  | 5.0 | 10              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 7.5 | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 10              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 25  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 10              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 5.0 | 10              |
| Bromodichloromethane                         | ND     |           | ug/l  | 5.0 | 10              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 5.0 | 10              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 5.0 | 10              |
| 1,1-Dichloropropene                          | ND     |           | ug/l  | 25  | 10              |
| Bromoform                                    | ND     |           | ug/l  | 20  | 10              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 5.0 | 10              |
| Benzene                                      | 200    |           | ug/l  | 5.0 | 10              |
| Toluene                                      | 180    |           | ug/l  | 7.5 | 10              |
| Ethylbenzene                                 | 710    |           | ug/l  | 5.0 | 10              |
| Chloromethane                                | ND     |           | ug/l  | 25  | 10              |
| Bromomethane                                 | ND     |           | ug/l  | 10  | 10              |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 10              |
| Chloroethane                                 | ND     |           | ug/l  | 10  | 10              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 10              |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 7.5 | 10              |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 10              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 10              |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 10              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

Lab ID: L1000282-02  
 Client ID: MW-S2-1-7-2010  
 Sample Location: NY, NY

Date Collected: 01/07/10 12:15  
 Date Received: 01/07/10  
 Field Prep: Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |                 |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 10              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 10  | 10              |
| p/m-Xylene                                   | 410    |           | ug/l  | 10  | 10              |
| o-Xylene                                     | 320    |           | ug/l  | 10  | 10              |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 5.0 | 10              |
| Dibromomethane                               | ND     |           | ug/l  | 50  | 10              |
| 1,2,3-Trichloropropane                       | ND     |           | ug/l  | 50  | 10              |
| Acrylonitrile                                | ND     |           | ug/l  | 50  | 10              |
| Styrene                                      | 40     |           | ug/l  | 10  | 10              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 50  | 10              |
| Acetone                                      | ND     |           | ug/l  | 50  | 10              |
| Carbon disulfide                             | ND     |           | ug/l  | 50  | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 10              |
| Vinyl acetate                                | ND     |           | ug/l  | 50  | 10              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 50  | 10              |
| 2-Hexanone                                   | ND     |           | ug/l  | 50  | 10              |
| Bromochloromethane                           | ND     |           | ug/l  | 25  | 10              |
| 2,2-Dichloropropane                          | ND     |           | ug/l  | 25  | 10              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 20  | 10              |
| 1,3-Dichloropropane                          | ND     |           | ug/l  | 25  | 10              |
| 1,1,1,2-Tetrachloroethane                    | ND     |           | ug/l  | 5.0 | 10              |
| Bromobenzene                                 | ND     |           | ug/l  | 25  | 10              |
| n-Butylbenzene                               | 6.2    |           | ug/l  | 5.0 | 10              |
| sec-Butylbenzene                             | ND     |           | ug/l  | 5.0 | 10              |
| tert-Butylbenzene                            | ND     |           | ug/l  | 25  | 10              |
| o-Chlorotoluene                              | ND     |           | ug/l  | 25  | 10              |
| p-Chlorotoluene                              | ND     |           | ug/l  | 25  | 10              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 25  | 10              |
| Hexachlorobutadiene                          | ND     |           | ug/l  | 6.0 | 10              |
| Isopropylbenzene                             | 64     |           | ug/l  | 5.0 | 10              |
| p-Isopropyltoluene                           | 11     |           | ug/l  | 5.0 | 10              |
| Naphthalene                                  | 3300   | E         | ug/l  | 25  | 10              |
| n-Propylbenzene                              | 42     |           | ug/l  | 5.0 | 10              |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 25  | 10              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 25  | 10              |
| 1,3,5-Trimethylbenzene                       | 61     |           | ug/l  | 25  | 10              |
| 1,2,4-Trimethylbenzene                       | 280    |           | ug/l  | 25  | 10              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS****Lab ID:** L1000282-02**Date Collected:** 01/07/10 12:15**Client ID:** MW-S2-1-7-2010**Date Received:** 01/07/10**Sample Location:** NY, NY**Field Prep:** Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |                 |
| 1,4-Diethylbenzene                           | 28     |           | ug/l  | 20  | 10              |
| 4-Ethyltoluene                               | 140    |           | ug/l  | 20  | 10              |
| 1,2,4,5-Tetramethylbenzene                   | ND     |           | ug/l  | 20  | 10              |
| Ethyl ether                                  | ND     |           | ug/l  | 25  | 10              |
| trans-1,4-Dichloro-2-butene                  | ND     |           | ug/l  | 25  | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101        |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 95         |           | 70-130              |
| Dibromofluoromethane  | 99         |           | 70-130              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-02 R  
**Client ID:** MW-S2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8260B  
**Analytical Date:** 01/12/10 13:54  
**Analyst:** PD

**Date Collected:** 01/07/10 12:15  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified

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

|                                              |  |  |  |  |  |
|----------------------------------------------|--|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab |  |  |  |  |  |
|----------------------------------------------|--|--|--|--|--|

|             |      |  |      |     |     |
|-------------|------|--|------|-----|-----|
| Naphthalene | 4900 |  | ug/l | 500 | 200 |
|-------------|------|--|------|-----|-----|

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 96         |           | 70-130              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-03  
**Client ID:** TRIP BLANK-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8260B  
**Analytical Date:** 01/08/10 11:35  
**Analyst:** MM

**Date Collected:** 01/07/10 00:00  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified

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

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS****Lab ID:** L1000282-03**Date Collected:** 01/07/10 00:00**Client ID:** TRIP BLANK-1-7-2010**Date Received:** 01/07/10**Sample Location:** NY, NY**Field Prep:** Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |                 |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 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**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

Lab ID: L1000282-03

Date Collected: 01/07/10 00:00

Client ID: TRIP BLANK-1-7-2010

Date Received: 01/07/10

Sample Location: NY, NY

Field Prep: Not Specified

| Parameter                                    | Result | Qualifier | Units | RDL | 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 | 112        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |

Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B  
 Analytical Date: 01/08/10 10:27  
 Analyst: MM

| Parameter                                                                        | Result | Qualifier | Units | RDL  |
|----------------------------------------------------------------------------------|--------|-----------|-------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG396150-3 |        |           |       |      |
| 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

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B  
 Analytical Date: 01/08/10 10:27  
 Analyst: MM

| Parameter                                                                        | Result | Qualifier | Units | RDL  |
|----------------------------------------------------------------------------------|--------|-----------|-------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG396150-3 |        |           |       |      |
| 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

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B  
 Analytical Date: 01/08/10 10:27  
 Analyst: MM

| Parameter                                                                        | Result | Qualifier | Units | RDL  |
|----------------------------------------------------------------------------------|--------|-----------|-------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG396150-3 |        |           |       |      |
| 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  |

#### Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 111       |           | 70-130              |
| Toluene-d8            | 101       |           | 70-130              |
| 4-Bromofluorobenzene  | 101       |           | 70-130              |
| Dibromofluoromethane  | 102       |           | 70-130              |

Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B  
 Analytical Date: 01/12/10 09:14  
 Analyst: PD

| Parameter                                                                           | Result | Qualifier | Units | RDL  |
|-------------------------------------------------------------------------------------|--------|-----------|-------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG396360-3 |        |           |       |      |
| 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

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B  
 Analytical Date: 01/12/10 09:14  
 Analyst: PD

| Parameter                                                                           | Result | Qualifier | Units | RDL  |
|-------------------------------------------------------------------------------------|--------|-----------|-------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG396360-3 |        |           |       |      |
| 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

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B  
 Analytical Date: 01/12/10 09:14  
 Analyst: PD

| Parameter                                                                           | Result | Qualifier | Units | RDL  |
|-------------------------------------------------------------------------------------|--------|-----------|-------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG396360-3 |        |           |       |      |
| 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<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 102       |           | 70-130                 |
| Toluene-d8            | 100       |           | 70-130                 |
| 4-Bromofluorobenzene  | 104       |           | 70-130                 |
| Dibromofluoromethane  | 97        |           | 70-130                 |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG396150-1 WG396150-2 |                  |      |                   |      |                     |     |      |            |
| Chlorobenzene                                                                                      | 98               |      | 98                |      | 75-130              | 0   |      | 20         |
| Benzene                                                                                            | 98               |      | 98                |      | 76-127              | 0   |      | 20         |
| Toluene                                                                                            | 103              |      | 102               |      | 76-125              | 1   |      | 20         |
| 1,1-Dichloroethene                                                                                 | 90               |      | 87                |      | 61-145              | 3   |      | 20         |
| Trichloroethene                                                                                    | 99               |      | 98                |      | 71-120              | 1   |      | 20         |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 105              |      | 106               |      | 70-130                 |
| Toluene-d8            | 101              |      | 100               |      | 70-130                 |
| 4-Bromofluorobenzene  | 90               |      | 93                |      | 70-130                 |
| Dibromofluoromethane  | 103              |      | 104               |      | 70-130                 |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG396360-1 WG396360-2 |                  |      |                   |      |                     |     |      |            |
| Chlorobenzene                                                                                         | 101              |      | 88                |      | 75-130              | 14  |      | 20         |
| Benzene                                                                                               | 104              |      | 91                |      | 76-127              | 13  |      | 20         |
| Toluene                                                                                               | 107              |      | 93                |      | 76-125              | 14  |      | 20         |
| 1,1-Dichloroethene                                                                                    | 113              |      | 97                |      | 61-145              | 15  |      | 20         |
| Trichloroethene                                                                                       | 108              |      | 92                |      | 71-120              | 16  |      | 20         |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 104              |      | 101               |      | 70-130                 |
| Toluene-d8            | 101              |      | 101               |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 101               |      | 70-130                 |
| Dibromofluoromethane  | 102              |      | 101               |      | 70-130                 |

# SEMIVOLATILES

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-01  
**Client ID:** MW-N2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8270C  
**Analytical Date:** 01/13/10 14:15  
**Analyst:** PS

**Date Collected:** 01/07/10 14:05  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/12/10 10:37

| Parameter                                        | Result | Qualifier | Units | RDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |                 |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/l  | 25  | 5               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/l  | 25  | 5               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/l  | 25  | 5               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/l  | 25  | 5               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/l  | 25  | 5               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/l  | 250 | 5               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 30  | 5               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/l  | 25  | 5               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/l  | 25  | 5               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/l  | 25  | 5               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/l  | 25  | 5               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/l  | 25  | 5               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/l  | 150 | 5               |
| Isophorone                                       | ND     |           | ug/l  | 25  | 5               |
| Nitrobenzene                                     | ND     |           | ug/l  | 25  | 5               |
| NitrosoDiPhenylAmine(NDPA)/DPA                   | ND     |           | ug/l  | 75  | 5               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/l  | 25  | 5               |
| Bis(2-Ethylhexyl)phthalate                       | ND     |           | ug/l  | 25  | 5               |
| Butyl benzyl phthalate                           | ND     |           | ug/l  | 25  | 5               |
| Di-n-butylphthalate                              | ND     |           | ug/l  | 25  | 5               |
| Di-n-octylphthalate                              | ND     |           | ug/l  | 25  | 5               |
| Diethyl phthalate                                | ND     |           | ug/l  | 25  | 5               |
| Dimethyl phthalate                               | ND     |           | ug/l  | 25  | 5               |
| Biphenyl                                         | 72     |           | ug/l  | 25  | 5               |
| 4-Chloroaniline                                  | ND     |           | ug/l  | 25  | 5               |
| 2-Nitroaniline                                   | ND     |           | ug/l  | 25  | 5               |
| 3-Nitroaniline                                   | ND     |           | ug/l  | 25  | 5               |
| 4-Nitroaniline                                   | ND     |           | ug/l  | 35  | 5               |
| Dibenzofuran                                     | 120    |           | ug/l  | 25  | 5               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 100 | 5               |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS****Lab ID:** L1000282-01**Date Collected:** 01/07/10 14:05**Client ID:** MW-N2-1-7-2010**Date Received:** 01/07/10**Sample Location:** NY, NY**Field Prep:** Not Specified

| Parameter                                        | Result | Qualifier | Units | RDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |                 |
| Acetophenone                                     | ND     |           | ug/l  | 100 | 5               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 25  | 5               |
| P-Chloro-M-Cresol                                | ND     |           | ug/l  | 25  | 5               |
| 2-Chlorophenol                                   | ND     |           | ug/l  | 30  | 5               |
| 2,4-Dichlorophenol                               | ND     |           | ug/l  | 50  | 5               |
| 2,4-Dimethylphenol                               | 270    |           | ug/l  | 50  | 5               |
| 2-Nitrophenol                                    | ND     |           | ug/l  | 100 | 5               |
| 4-Nitrophenol                                    | ND     |           | ug/l  | 50  | 5               |
| 2,4-Dinitrophenol                                | ND     |           | ug/l  | 150 | 5               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/l  | 100 | 5               |
| Phenol                                           | ND     |           | ug/l  | 35  | 5               |
| 2-Methylphenol                                   | 87     |           | ug/l  | 30  | 5               |
| 3-Methylphenol/4-Methylphenol                    | 62     |           | ug/l  | 30  | 5               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 25  | 5               |
| Benzoic Acid                                     | ND     |           | ug/l  | 250 | 5               |
| Benzyl Alcohol                                   | ND     |           | ug/l  | 50  | 5               |
| Carbazole                                        | 210    |           | ug/l  | 25  | 5               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 38         |           | 21-120              |
| Phenol-d6            | 25         |           | 10-120              |
| Nitrobenzene-d5      | 76         |           | 23-120              |
| 2-Fluorobiphenyl     | 82         |           | 15-120              |
| 2,4,6-Tribromophenol | 77         |           | 10-120              |
| 4-Terphenyl-d14      | 80         |           | 33-120              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-01  
**Client ID:** MW-N2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8270C  
**Analytical Date:** 01/14/10 14:02  
**Analyst:** AS

**Date Collected:** 01/07/10 14:05  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/12/10 10:38

| Parameter                                            | Result | Qualifier | Units | RDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-----|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |     |                 |
| Acenaphthene                                         | 61     |           | ug/l  | 40  | 200             |
| 2-Chloronaphthalene                                  | ND     |           | ug/l  | 40  | 200             |
| Fluoranthene                                         | ND     |           | ug/l  | 40  | 200             |
| Hexachlorobutadiene                                  | ND     |           | ug/l  | 100 | 200             |
| Naphthalene                                          | 2200   |           | ug/l  | 40  | 200             |
| Benzo(a)anthracene                                   | ND     |           | ug/l  | 40  | 200             |
| Benzo(a)pyrene                                       | ND     |           | ug/l  | 40  | 200             |
| Benzo(b)fluoranthene                                 | ND     |           | ug/l  | 40  | 200             |
| Benzo(k)fluoranthene                                 | ND     |           | ug/l  | 40  | 200             |
| Chrysene                                             | ND     |           | ug/l  | 40  | 200             |
| Acenaphthylene                                       | ND     |           | ug/l  | 40  | 200             |
| Anthracene                                           | ND     |           | ug/l  | 40  | 200             |
| Benzo(ghi)perylene                                   | ND     |           | ug/l  | 40  | 200             |
| Fluorene                                             | ND     |           | ug/l  | 40  | 200             |
| Phenanthrene                                         | 40     |           | ug/l  | 40  | 200             |
| Dibenzo(a,h)anthracene                               | ND     |           | ug/l  | 40  | 200             |
| Indeno(1,2,3-cd)Pyrene                               | ND     |           | ug/l  | 40  | 200             |
| Pyrene                                               | ND     |           | ug/l  | 40  | 200             |
| 2-Methylnaphthalene                                  | 230    |           | ug/l  | 40  | 200             |
| Pentachlorophenol                                    | ND     |           | ug/l  | 160 | 200             |
| Hexachlorobenzene                                    | ND     |           | ug/l  | 160 | 200             |
| Hexachloroethane                                     | ND     |           | ug/l  | 160 | 200             |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

Lab ID: L1000282-01

Date Collected: 01/07/10 14:05

Client ID: MW-N2-1-7-2010

Date Received: 01/07/10

Sample Location: NY, NY

Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RDL | 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**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-02  
**Client ID:** MW-S2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8270C  
**Analytical Date:** 01/13/10 13:26  
**Analyst:** PS

**Date Collected:** 01/07/10 12:15  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/12/10 10:37

| Parameter                                        | Result | Qualifier | Units | RDL | 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                                         | 49     |           | 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                                     | 27     |           | ug/l  | 5.0 | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 20  | 1               |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

Lab ID: L1000282-02  
 Client ID: MW-S2-1-7-2010  
 Sample Location: NY, NY

Date Collected: 01/07/10 12:15  
 Date Received: 01/07/10  
 Field Prep: Not Specified

| Parameter                                        | Result | Qualifier | Units | RDL | 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                                           | 7.7    |           | ug/l  | 7.0 | 1               |
| 2-Methylphenol                                   | 6.9    |           | ug/l  | 6.0 | 1               |
| 3-Methylphenol/4-Methylphenol                    | 9.4    |           | 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                                        | 81     |           | ug/l  | 5.0 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 33         |           | 21-120              |
| Phenol-d6            | 23         |           | 10-120              |
| Nitrobenzene-d5      | 72         |           | 23-120              |
| 2-Fluorobiphenyl     | 79         |           | 15-120              |
| 2,4,6-Tribromophenol | 81         |           | 10-120              |
| 4-Terphenyl-d14      | 83         |           | 33-120              |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

**Lab ID:** L1000282-02  
**Client ID:** MW-S2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water  
**Analytical Method:** 1,8270C  
**Analytical Date:** 01/14/10 14:31  
**Analyst:** AS

**Date Collected:** 01/07/10 12:15  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/12/10 10:38

| Parameter                                            | Result | Qualifier | Units | RDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-----|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |     |                 |
| Acenaphthene                                         | ND     |           | ug/l  | 200 | 1000            |
| 2-Chloronaphthalene                                  | ND     |           | ug/l  | 200 | 1000            |
| Fluoranthene                                         | ND     |           | ug/l  | 200 | 1000            |
| Hexachlorobutadiene                                  | ND     |           | ug/l  | 500 | 1000            |
| Naphthalene                                          | 11000  |           | ug/l  | 200 | 1000            |
| Benzo(a)anthracene                                   | ND     |           | ug/l  | 200 | 1000            |
| Benzo(a)pyrene                                       | ND     |           | ug/l  | 200 | 1000            |
| Benzo(b)fluoranthene                                 | ND     |           | ug/l  | 200 | 1000            |
| Benzo(k)fluoranthene                                 | ND     |           | ug/l  | 200 | 1000            |
| Chrysene                                             | ND     |           | ug/l  | 200 | 1000            |
| Acenaphthylene                                       | ND     |           | ug/l  | 200 | 1000            |
| Anthracene                                           | ND     |           | ug/l  | 200 | 1000            |
| Benzo(ghi)perylene                                   | ND     |           | ug/l  | 200 | 1000            |
| Fluorene                                             | ND     |           | ug/l  | 200 | 1000            |
| Phenanthrene                                         | ND     |           | ug/l  | 200 | 1000            |
| Dibenzo(a,h)anthracene                               | ND     |           | ug/l  | 200 | 1000            |
| Indeno(1,2,3-cd)Pyrene                               | ND     |           | ug/l  | 200 | 1000            |
| Pyrene                                               | ND     |           | ug/l  | 200 | 1000            |
| 2-Methylnaphthalene                                  | 490    |           | ug/l  | 200 | 1000            |
| Pentachlorophenol                                    | ND     |           | ug/l  | 800 | 1000            |
| Hexachlorobenzene                                    | ND     |           | ug/l  | 800 | 1000            |
| Hexachloroethane                                     | ND     |           | ug/l  | 800 | 1000            |

**Project Name:** RIVER PLACE**Lab Number:** L1000282**Project Number:** 170040901**Report Date:** 01/14/10**SAMPLE RESULTS**

Lab ID: L1000282-02

Date Collected: 01/07/10 12:15

Client ID: MW-S2-1-7-2010

Date Received: 01/07/10

Sample Location: NY, NY

Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RDL | 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

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 01/13/10 11:48  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/12/10 10:37

| Parameter                                                                               | Result | Qualifier | Units | RDL |
|-----------------------------------------------------------------------------------------|--------|-----------|-------|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG396295-1 |        |           |       |     |
| 1,2,4-Trichlorobenzene                                                                  | ND     |           | ug/l  | 5.0 |
| Bis(2-chloroethyl)ether                                                                 | ND     |           | ug/l  | 5.0 |
| 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 |
| 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 |
| Hexachlorocyclopentadiene                                                               | ND     |           | ug/l  | 30  |
| Isophorone                                                                              | 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 |
| 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 |
| 1,2,4,5-Tetrachlorobenzene                                                              | ND     |           | ug/l  | 20  |
| Acetophenone                                                                            | ND     |           | ug/l  | 20  |

Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 01/13/10 11:48  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/12/10 10:37

| Parameter                                                                               | Result | Qualifier | Units | RDL |
|-----------------------------------------------------------------------------------------|--------|-----------|-------|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG396295-1 |        |           |       |     |
| 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  |
| 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 |

#### Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 01/13/10 11:48  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/12/10 10:37

| Parameter                                                                               | Result | Qualifier | Units | RDL |
|-----------------------------------------------------------------------------------------|--------|-----------|-------|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG396295-1 |        |           |       |     |

| Surrogate            | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------------|-----------|-----------|------------------------|
| 2-Fluorophenol       | 34        |           | 21-120                 |
| Phenol-d6            | 22        |           | 10-120                 |
| Nitrobenzene-d5      | 57        |           | 23-120                 |
| 2-Fluorobiphenyl     | 62        |           | 15-120                 |
| 2,4,6-Tribromophenol | 62        |           | 10-120                 |
| 4-Terphenyl-d14      | 76        |           | 33-120                 |

Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 01/13/10 09:33  
 Analyst: AS

Extraction Method: EPA 3510C  
 Extraction Date: 01/12/10 10:38

| Parameter                                                                                   | Result | Qualifier | Units | RDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG396296-1 |        |           |       |      |
| 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

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 01/13/10 09:33  
 Analyst: AS

Extraction Method: EPA 3510C  
 Extraction Date: 01/12/10 10:38

| Parameter                                                                                   | Result | Qualifier | Units | RDL |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|-----|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG396296-1 |        |           |       |     |

| Surrogate            | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------------|-----------|-----------|------------------------|
| 2-Fluorophenol       | 32        |           | 21-120                 |
| Phenol-d6            | 21        |           | 10-120                 |
| Nitrobenzene-d5      | 55        |           | 23-120                 |
| 2-Fluorobiphenyl     | 49        |           | 15-120                 |
| 2,4,6-Tribromophenol | 53        |           | 10-120                 |
| 4-Terphenyl-d14      | 63        |           | 33-120                 |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG396295-2 WG396295-3 |                  |      |                   |      |                     |     |      |            |
| 1,2,4-Trichlorobenzene                                                                                    | 56               |      | 59                |      | 39-98               | 5   |      | 30         |
| 1,2-Dichlorobenzene                                                                                       | 51               |      | 55                |      | 40-140              | 8   |      | 30         |
| 1,4-Dichlorobenzene                                                                                       | 49               |      | 55                |      | 36-97               | 12  |      | 30         |
| 2,4-Dinitrotoluene                                                                                        | 77               |      | 86                |      | 24-96               | 11  |      | 30         |
| 2,6-Dinitrotoluene                                                                                        | 76               |      | 83                |      | 40-140              | 9   |      | 30         |
| 4-Chlorophenyl phenyl ether                                                                               | 78               |      | 74                |      | 40-140              | 5   |      | 30         |
| n-Nitrosodi-n-propylamine                                                                                 | 65               |      | 72                |      | 41-116              | 10  |      | 30         |
| Butyl benzyl phthalate                                                                                    | 81               |      | 85                |      | 40-140              | 5   |      | 30         |
| P-Chloro-M-Cresol                                                                                         | 77               |      | 79                |      | 23-97               | 3   |      | 30         |
| 2-Chlorophenol                                                                                            | 62               |      | 62                |      | 27-123              | 0   |      | 30         |
| 2-Nitrophenol                                                                                             | 66               |      | 73                |      | 30-130              | 10  |      | 30         |
| 4-Nitrophenol                                                                                             | 42               |      | 40                |      | 10-80               | 5   |      | 30         |
| 2,4-Dinitrophenol                                                                                         | 56               |      | 62                |      | 20-130              | 10  |      | 30         |
| Phenol                                                                                                    | 28               |      | 28                |      | 12-110              | 0   |      | 30         |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-----------|------------------|------|-------------------|------|---------------------|-----|------|------------|
|-----------|------------------|------|-------------------|------|---------------------|-----|------|------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG396295-2 WG396295-3

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 37               |      | 35                |      | 21-120                 |
| Phenol-d6            | 25               |      | 24                |      | 10-120                 |
| Nitrobenzene-d5      | 63               |      | 75                |      | 23-120                 |
| 2-Fluorobiphenyl     | 67               |      | 74                |      | 15-120                 |
| 2,4,6-Tribromophenol | 79               |      | 79                |      | 10-120                 |
| 4-Terphenyl-d14      | 79               |      | 88                |      | 33-120                 |

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG396296-2 WG396296-3

|                     |    |  |    |  |        |    |    |
|---------------------|----|--|----|--|--------|----|----|
| Acenaphthene        | 59 |  | 61 |  | 37-111 | 3  | 40 |
| 2-Chloronaphthalene | 80 |  | 79 |  | 40-140 | 1  | 40 |
| Fluoranthene        | 75 |  | 86 |  | 40-140 | 14 | 40 |
| Anthracene          | 70 |  | 76 |  | 40-140 | 8  | 40 |
| Pyrene              | 75 |  | 87 |  | 26-127 | 15 | 40 |
| Pentachlorophenol   | 72 |  | 82 |  | 9-103  | 13 | 40 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-----------|------------------|------|-------------------|------|---------------------|-----|------|------------|
|-----------|------------------|------|-------------------|------|---------------------|-----|------|------------|

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG396296-2 WG396296-3

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 35               |      | 37                |      | 21-120                 |
| Phenol-d6            | 23               |      | 25                |      | 10-120                 |
| Nitrobenzene-d5      | 64               |      | 67                |      | 23-120                 |
| 2-Fluorobiphenyl     | 55               |      | 61                |      | 15-120                 |
| 2,4,6-Tribromophenol | 63               |      | 71                |      | 10-120                 |
| 4-Terphenyl-d14      | 66               |      | 78                |      | 33-120                 |

## METALS

Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

## SAMPLE RESULTS

Lab ID: L1000282-01  
 Client ID: MW-N2-1-7-2010  
 Sample Location: NY, NY  
 Matrix: Water

Date Collected: 01/07/10 14:05  
 Date Received: 01/07/10  
 Field Prep: Not Specified

| Parameter                      | Result | Qualifier | Units | RDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|--------------------------------|--------|-----------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Westborough Lab |        |           |       |        |                 |                |                |             |                   |         |
| Aluminum, Total                | 1.5    |           | mg/l  | 0.10   | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Antimony, Total                | ND     |           | mg/l  | 0.0020 | 4               | 01/11/10 11:45 | 01/12/10 21:46 | EPA 3005A   | 1,6020            | BM      |
| Arsenic, Total                 | 0.011  |           | mg/l  | 0.005  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Barium, Total                  | 0.104  |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Beryllium, Total               | ND     |           | mg/l  | 0.0020 | 4               | 01/11/10 11:45 | 01/12/10 21:46 | EPA 3005A   | 1,6020            | BM      |
| Cadmium, Total                 | ND     |           | mg/l  | 0.005  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Calcium, Total                 | 180    |           | mg/l  | 0.10   | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Chromium, Total                | ND     |           | mg/l  | 0.01   | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Cobalt, Total                  | ND     |           | mg/l  | 0.020  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Copper, Total                  | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Iron, Total                    | 3.5    |           | mg/l  | 0.05   | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Lead, Total                    | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Magnesium, Total               | 83     |           | mg/l  | 0.10   | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Manganese, Total               | 0.746  |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Mercury, Total                 | ND     |           | mg/l  | 0.0002 | 1               | 01/11/10 16:40 | 01/12/10 11:37 | EPA 7470A   | 1,7470A           | EZ      |
| Nickel, Total                  | ND     |           | mg/l  | 0.025  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Potassium, Total               | 47     |           | mg/l  | 2.5    | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Selenium, Total                | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Silver, Total                  | ND     |           | mg/l  | 0.007  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Sodium, Total                  | 240    |           | mg/l  | 2.0    | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Thallium, Total                | ND     |           | mg/l  | 0.0020 | 4               | 01/11/10 11:45 | 01/12/10 21:46 | EPA 3005A   | 1,6020            | BM      |
| Vanadium, Total                | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |
| Zinc, Total                    | ND     |           | mg/l  | 0.050  | 1               | 01/08/10 11:10 | 01/13/10 09:21 | EPA 3005A   | 1,6010B           | MG      |



Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

## SAMPLE RESULTS

Lab ID: L1000282-02  
 Client ID: MW-S2-1-7-2010  
 Sample Location: NY, NY  
 Matrix: Water

Date Collected: 01/07/10 12:15  
 Date Received: 01/07/10  
 Field Prep: Not Specified

| Parameter                      | Result | Qualifier | Units | RDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|--------------------------------|--------|-----------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Westborough Lab |        |           |       |        |                 |                |                |             |                   |         |
| Aluminum, Total                | 0.70   |           | mg/l  | 0.10   | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Antimony, Total                | ND     |           | mg/l  | 0.0020 | 4               | 01/11/10 11:45 | 01/12/10 22:04 | EPA 3005A   | 1,6020            | BM      |
| Arsenic, Total                 | 0.017  |           | mg/l  | 0.005  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Barium, Total                  | 0.198  |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Beryllium, Total               | ND     |           | mg/l  | 0.0020 | 4               | 01/11/10 11:45 | 01/12/10 22:04 | EPA 3005A   | 1,6020            | BM      |
| Cadmium, Total                 | ND     |           | mg/l  | 0.005  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Calcium, Total                 | 210    |           | mg/l  | 0.10   | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Chromium, Total                | ND     |           | mg/l  | 0.01   | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Cobalt, Total                  | ND     |           | mg/l  | 0.020  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Copper, Total                  | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Iron, Total                    | 3.2    |           | mg/l  | 0.05   | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Lead, Total                    | 0.017  |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Magnesium, Total               | 120    |           | mg/l  | 0.10   | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Manganese, Total               | 0.327  |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Mercury, Total                 | 0.0003 |           | mg/l  | 0.0002 | 1               | 01/11/10 16:40 | 01/12/10 11:42 | EPA 7470A   | 1,7470A           | EZ      |
| Nickel, Total                  | ND     |           | mg/l  | 0.025  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Potassium, Total               | 34     |           | mg/l  | 2.5    | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Selenium, Total                | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Silver, Total                  | ND     |           | mg/l  | 0.007  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Sodium, Total                  | 98     |           | mg/l  | 2.0    | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Thallium, Total                | ND     |           | mg/l  | 0.0020 | 4               | 01/11/10 11:45 | 01/12/10 22:04 | EPA 3005A   | 1,6020            | BM      |
| Vanadium, Total                | ND     |           | mg/l  | 0.010  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |
| Zinc, Total                    | ND     |           | mg/l  | 0.050  | 1               | 01/08/10 11:10 | 01/13/10 09:34 | EPA 3005A   | 1,6010B           | MG      |



Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

## Method Blank Analysis Batch Quality Control

| Parameter                                                             | Result Qualifier | Units | RDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-----------------------------------------------------------------------|------------------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG395992-1 |                  |       |       |                 |                |                |                   |         |
| Aluminum, Total                                                       | ND               | mg/l  | 0.10  | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Arsenic, Total                                                        | ND               | mg/l  | 0.005 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Barium, Total                                                         | ND               | mg/l  | 0.010 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Cadmium, Total                                                        | ND               | mg/l  | 0.005 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Calcium, Total                                                        | ND               | mg/l  | 0.10  | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Chromium, Total                                                       | ND               | mg/l  | 0.01  | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Cobalt, Total                                                         | ND               | mg/l  | 0.020 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Copper, Total                                                         | ND               | mg/l  | 0.010 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Iron, Total                                                           | ND               | mg/l  | 0.05  | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Lead, Total                                                           | ND               | mg/l  | 0.010 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Magnesium, Total                                                      | ND               | mg/l  | 0.10  | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Manganese, Total                                                      | ND               | mg/l  | 0.010 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Nickel, Total                                                         | ND               | mg/l  | 0.025 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Potassium, Total                                                      | ND               | mg/l  | 2.5   | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Selenium, Total                                                       | ND               | mg/l  | 0.010 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Silver, Total                                                         | ND               | mg/l  | 0.007 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Sodium, Total                                                         | ND               | mg/l  | 2.0   | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Vanadium, Total                                                       | ND               | mg/l  | 0.010 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |
| Zinc, Total                                                           | ND               | mg/l  | 0.050 | 1               | 01/08/10 11:10 | 01/13/10 09:11 | 1,6010B           | MG      |

### Prep Information

Digestion Method: EPA 3005A

| Parameter                                                             | Result Qualifier | Units | RDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-----------------------------------------------------------------------|------------------|-------|--------|-----------------|----------------|----------------|-------------------|---------|
| Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG396180-1 |                  |       |        |                 |                |                |                   |         |
| Antimony, Total                                                       | ND               | mg/l  | 0.0005 | 1               | 01/11/10 11:45 | 01/12/10 19:45 | 1,6020            | BM      |
| Beryllium, Total                                                      | ND               | mg/l  | 0.0005 | 1               | 01/11/10 11:45 | 01/12/10 19:45 | 1,6020            | BM      |
| Thallium, Total                                                       | ND               | mg/l  | 0.0005 | 1               | 01/11/10 11:45 | 01/12/10 19:45 | 1,6020            | BM      |



Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 3005A

| Parameter                                                             | Result Qualifier | Units | RDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-----------------------------------------------------------------------|------------------|-------|--------|-----------------|----------------|----------------|-------------------|---------|
| Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG396228-1 |                  |       |        |                 |                |                |                   |         |
| Mercury, Total                                                        | ND               | mg/l  | 0.0002 | 1               | 01/11/10 16:40 | 01/12/10 11:33 | 1,7470A           | EZ      |

### Prep Information

Digestion Method: EPA 7470A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG395992-2 |                  |      |                   |      |                     |     |      |            |
| Aluminum, Total                                                              | 105              |      | -                 |      | 80-120              | -   |      |            |
| Arsenic, Total                                                               | 114              |      | -                 |      | 80-120              | -   |      |            |
| Barium, Total                                                                | 105              |      | -                 |      | 80-120              | -   |      |            |
| Cadmium, Total                                                               | 110              |      | -                 |      | 80-120              | -   |      |            |
| Calcium, Total                                                               | 98               |      | -                 |      | 80-120              | -   |      |            |
| Chromium, Total                                                              | 105              |      | -                 |      | 80-120              | -   |      |            |
| Cobalt, Total                                                                | 105              |      | -                 |      | 80-120              | -   |      |            |
| Copper, Total                                                                | 105              |      | -                 |      | 80-120              | -   |      |            |
| Iron, Total                                                                  | 100              |      | -                 |      | 80-120              | -   |      |            |
| Lead, Total                                                                  | 109              |      | -                 |      | 80-120              | -   |      |            |
| Magnesium, Total                                                             | 100              |      | -                 |      | 80-120              | -   |      |            |
| Manganese, Total                                                             | 107              |      | -                 |      | 80-120              | -   |      |            |
| Nickel, Total                                                                | 104              |      | -                 |      | 80-120              | -   |      |            |
| Potassium, Total                                                             | 99               |      | -                 |      | 80-120              | -   |      |            |
| Selenium, Total                                                              | 112              |      | -                 |      | 80-120              | -   |      |            |
| Silver, Total                                                                | 110              |      | -                 |      | 80-120              | -   |      |            |
| Sodium, Total                                                                | 100              |      | -                 |      | 80-120              | -   |      |            |
| Vanadium, Total                                                              | 107              |      | -                 |      | 80-120              | -   |      |            |
| Zinc, Total                                                                  | 114              |      | -                 |      | 80-120              | -   |      |            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                    | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG396180-2 |                  |                   |                     |     |            |
| Antimony, Total                                                              | 103              | -                 | 80-120              | -   |            |
| Beryllium, Total                                                             | 116              | -                 | 80-120              | -   |            |
| Thallium, Total                                                              | 97               | -                 | 80-120              | -   |            |
| Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG396228-2 |                  |                   |                     |     |            |
| Mercury, Total                                                               | 111              | -                 | 80-120              | -   |            |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

| 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: WG395992-4    QC Sample: L1000282-01    Client ID: MW-N2-1-7-2010 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Aluminum, Total                                                                                                                              | 1.5           | 2        | 4.1      | 130          | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Arsenic, Total                                                                                                                               | 0.011         | 0.12     | 0.141    | 108          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, Total                                                                                                                                | 0.104         | 2        | 2.23     | 106          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, Total                                                                                                                               | ND            | 0.051    | 0.053    | 104          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Calcium, Total                                                                                                                               | 180           | 10       | 190      | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, Total                                                                                                                              | ND            | 0.2      | 0.21     | 105          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cobalt, Total                                                                                                                                | ND            | 0.5      | 0.496    | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Copper, Total                                                                                                                                | ND            | 0.25     | 0.293    | 117          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Iron, Total                                                                                                                                  | 3.5           | 1        | 4.5      | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, Total                                                                                                                                  | ND            | 0.51     | 0.538    | 105          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Magnesium, Total                                                                                                                             | 83            | 10       | 92       | 90           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Manganese, Total                                                                                                                             | 0.746         | 0.5      | 1.24     | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Nickel, Total                                                                                                                                | ND            | 0.5      | 0.498    | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Potassium, Total                                                                                                                             | 47            | 10       | 61       | 140          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, Total                                                                                                                              | ND            | 0.12     | 0.084    | 70           | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, Total                                                                                                                                | ND            | 0.05     | 0.058    | 116          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Sodium, Total                                                                                                                                | 240           | 10       | 240      | 0            |      | -         | -             |      | 75-125          | -   |      | 20         |
| Vanadium, Total                                                                                                                              | ND            | 0.5      | 0.522    | 104          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Zinc, Total                                                                                                                                  | ND            | 0.5      | 0.562    | 112          |      | -         | -             |      | 75-125          | -   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| 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: WG396180-4    QC Sample: L1000282-01    Client ID: MW-N2-1-7-2010 |               |          |          |              |           |               |                 |     |            |
| Antimony, Total                                                                                                                              | ND            | 0.5      | 0.4947   | 99           | -         | -             | 80-120          | -   | 20         |
| Beryllium, Total                                                                                                                             | ND            | 0.05     | 0.0550   | 110          | -         | -             | 80-120          | -   | 20         |
| Thallium, Total                                                                                                                              | ND            | 0.12     | 0.1130   | 94           | -         | -             | 80-120          | -   | 20         |
| Total Metals - Westborough Lab Associated sample(s): 01-02    QC Batch ID: WG396228-4    QC Sample: L1000282-01    Client ID: MW-N2-1-7-2010 |               |          |          |              |           |               |                 |     |            |
| Mercury, Total                                                                                                                               | ND            | 0.001    | 0.0012   | 124          | -         | -             | 70-130          | -   | 20         |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                                                           | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG395992-3 QC Sample: L1000282-01 Client ID: MW-N2-1-7-2010 |               |                  |       |     |      |            |
| Aluminum, Total                                                                                                                     | 1.5           | 1.5              | mg/l  | 0   |      | 20         |
| Arsenic, Total                                                                                                                      | 0.011         | 0.009            | mg/l  | 21  |      | 20         |
| Barium, Total                                                                                                                       | 0.104         | 0.104            | mg/l  | 0   |      | 20         |
| Cadmium, Total                                                                                                                      | ND            | ND               | mg/l  | NC  |      | 20         |
| Calcium, Total                                                                                                                      | 180           | 180              | 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                                                                                                                         | 3.5           | 3.5              | mg/l  | 0   |      | 20         |
| Lead, Total                                                                                                                         | ND            | ND               | mg/l  | NC  |      | 20         |
| Magnesium, Total                                                                                                                    | 83            | 83               | mg/l  | 0   |      | 20         |
| Manganese, Total                                                                                                                    | 0.746         | 0.739            | mg/l  | 1   |      | 20         |
| Nickel, Total                                                                                                                       | ND            | ND               | mg/l  | NC  |      | 20         |
| Potassium, Total                                                                                                                    | 47            | 46               | mg/l  | 2   |      | 20         |
| Selenium, Total                                                                                                                     | ND            | ND               | mg/l  | NC  |      | 20         |
| Silver, Total                                                                                                                       | ND            | ND               | mg/l  | NC  |      | 20         |
| Sodium, Total                                                                                                                       | 240           | 230              | mg/l  | 4   |      | 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

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                                                           | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG396180-3 QC Sample: L1000282-01 Client ID: MW-N2-1-7-2010 |               |                  |       |     |            |
| Antimony, Total                                                                                                                     | ND            | ND               | mg/l  | NC  | 20         |
| Beryllium, Total                                                                                                                    | ND            | ND               | mg/l  | NC  | 20         |
| Thallium, Total                                                                                                                     | ND            | ND               | mg/l  | NC  | 20         |
| Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG396228-3 QC Sample: L1000282-01 Client ID: MW-N2-1-7-2010 |               |                  |       |     |            |
| Mercury, Total                                                                                                                      | ND            | ND               | mg/l  | NC  | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

**SAMPLE RESULTS**

**Lab ID:** L1000282-01  
**Client ID:** MW-N2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water

**Date Collected:** 01/07/10 14:05  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified

| Parameter                           | Result | Qualifier | Units | RDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                      | 0.890  |           | mg/l  | 0.050 | 10                 | 01/08/10 10:00   | 01/08/10 15:48   | 1,9010B/9012A        | JO      |
| Cyanide, Physiologically Available  | 0.228  |           | mg/l  | 0.005 | 1                  | 01/08/10 10:00   | 01/08/10 14:14   | 64,9014(M)           | JO      |



**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

**SAMPLE RESULTS**

**Lab ID:** L1000282-02  
**Client ID:** MW-S2-1-7-2010  
**Sample Location:** NY, NY  
**Matrix:** Water

**Date Collected:** 01/07/10 12:15  
**Date Received:** 01/07/10  
**Field Prep:** Not Specified

| Parameter                           | Result | Qualifier | Units | RDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |                 |                |                |                   |         |
| Cyanide, Total                      | 1.09   |           | mg/l  | 0.050 | 10              | 01/08/10 10:00 | 01/08/10 15:49 | 1,9010B/9012A     | JO      |
| Cyanide, Physiologically Available  | 0.353  |           | mg/l  | 0.005 | 1               | 01/08/10 10:00 | 01/08/10 14:17 | 64,9014(M)        | JO      |



Project Name: RIVER PLACE

Lab Number: L1000282

Project Number: 170040901

Report Date: 01/14/10

### Method Blank Analysis Batch Quality Control

| Parameter                                                                  | Result | Qualifier | Units | RDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------------|--------|-----------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG395919-2 |        |           |       |       |                    |                  |                  |                      |         |
| Cyanide, Physiologically Available                                         | ND     |           | mg/l  | 0.005 | 1                  | 01/08/10 10:00   | 01/08/10 14:07   | 64,9014(M)           | JO      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG395921-2 |        |           |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                                                             | ND     |           | mg/l  | 0.005 | 1                  | 01/08/10 10:00   | 01/08/10 14:09   | 1,9010B/9012A        | JO      |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG395919-1              |                  |      |                   |      |                     |     |      |            |
| Cyanide, Physiologically Available                                                             | 95               |      | -                 |      | 80-120              | -   |      |            |
| General Chemistry - Westborough Lab NEGATIVE LCS Associated sample(s): 01-02 Batch: WG395919-3 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Physiologically Available                                                             | 1                |      | -                 |      | 0-10                | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG395921-1              |                  |      |                   |      |                     |     |      |            |
| Cyanide, Total                                                                                 | 96               |      | -                 |      | 80-120              | -   |      |            |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

| 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: WG395921-3 WG395921-4 QC Sample: L1000282-02 Client ID: MW-S2-1-7-2010 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Cyanide, Total                                                                                                                                      | 1.09          | 0.2      | 1.20     | 55           |      | 1.19      | 65            |      | 80-120          | 17  |      | 30         |

# Lab Duplicate Analysis

Batch Quality Control

**Project Name:** RIVER PLACE

**Project Number:** 170040901

**Lab Number:** L1000282

**Report Date:** 01/14/10

| Parameter                                                                                                                                | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG395919-4 QC Sample: L1000282-02 Client ID: MW-S2-1-7-2010 |               |                  |       |     |      |            |
| Cyanide, Physiologically Available                                                                                                       | 0.353         | 0.215            | mg/l  | 49  | Q    | 20         |

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1000282

Report Date: 01/14/10

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A      | Absent       |

## Container Information

| Container ID | Container Type               | Cooler | pH  | Temp deg C | Pres | Seal   | Analysis                                                                                                                                                                                                                                                          |
|--------------|------------------------------|--------|-----|------------|------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L1000282-01A | Vial HCl preserved           | A      | N/A | 3          | Y    | Absent | NYTCL-8260(14)                                                                                                                                                                                                                                                    |
| L1000282-01B | Vial HCl preserved           | A      | N/A | 3          | Y    | Absent | NYTCL-8260(14)                                                                                                                                                                                                                                                    |
| L1000282-01C | Amber 1000ml unpreserved     | A      | 7   | 3          | Y    | Absent | NYTCL-8270(7),NYTCL-8270-SIM(7)                                                                                                                                                                                                                                   |
| L1000282-01D | Amber 1000ml unpreserved     | A      | 7   | 3          | Y    | Absent | NYTCL-8270(7),NYTCL-8270-SIM(7)                                                                                                                                                                                                                                   |
| L1000282-01E | Plastic 500ml HNO3 preserved | A      | <2  | 3          | Y    | Absent | TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1000282-01F | Plastic 250ml NaOH preserved | A      | >12 | 3          | Y    | Absent | TCN-9010(14)                                                                                                                                                                                                                                                      |
| L1000282-01G | Plastic 250ml NaOH preserved | A      | >12 | 3          | Y    | Absent | PACN(14)                                                                                                                                                                                                                                                          |
| L1000282-02A | Vial HCl preserved           | A      | N/A | 3          | Y    | Absent | NYTCL-8260(14)                                                                                                                                                                                                                                                    |
| L1000282-02B | Vial HCl preserved           | A      | N/A | 3          | Y    | Absent | NYTCL-8260(14)                                                                                                                                                                                                                                                    |
| L1000282-02C | Amber 1000ml unpreserved     | A      | 7   | 3          | Y    | Absent | NYTCL-8270(7),NYTCL-8270-SIM(7)                                                                                                                                                                                                                                   |
| L1000282-02D | Amber 1000ml unpreserved     | A      | 7   | 3          | Y    | Absent | NYTCL-8270(7),NYTCL-8270-SIM(7)                                                                                                                                                                                                                                   |
| L1000282-02E | Plastic 500ml HNO3 preserved | A      | <2  | 3          | Y    | Absent | TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1000282-02F | Plastic 250ml NaOH preserved | A      | >12 | 3          | Y    | Absent | TCN-9010(14)                                                                                                                                                                                                                                                      |
| L1000282-02G | Plastic 250ml NaOH preserved | A      | >12 | 3          | Y    | Absent | PACN(14)                                                                                                                                                                                                                                                          |
| L1000282-03A | Vial HCl preserved           | A      | N/A | 3          | Y    | Absent | NYTCL-8260(14)                                                                                                                                                                                                                                                    |

\*Hold days indicated by values in parentheses



**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

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

### Terms

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

### Data Qualifiers

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

Report Format: Data Usability Report



**Project Name:** RIVER PLACE  
**Project Number:** 170040901

**Lab Number:** L1000282  
**Report Date:** 01/14/10

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certificate/Approval Program Summary

Last revised January 11, 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: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

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

*Solid Waste/Soil* (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), 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, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

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

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

#### *Drinking Water*

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

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

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

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

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

Microbiology Parameters: SM9215B; 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,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 420.1

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

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

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

*Drinking Water* (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO<sub>3</sub>-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, 4500NH<sub>3</sub>-H, 4500NH<sub>3</sub>-E, 4500NO<sub>2</sub>-B, 4500P-E, 4500-S<sub>2</sub>-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, 4500NO<sub>3</sub>-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, SM4500NO<sub>3</sub>-F, 4500NO<sub>2</sub>-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B<sub>5</sub>+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH<sub>3</sub>-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, 4500NO<sub>3</sub>-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, SM4500NH<sub>3</sub>-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO<sub>3</sub>-F, 4500-NO<sub>2</sub>-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

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

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

*Non-Potable Water* (Organic Parameters: EPA 3510C, 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 Commission 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, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup>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.)

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

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

**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, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO<sub>4</sub>-E, 426C, 4500NH<sub>3</sub>-B, 4500NH<sub>3</sub>-H, 4500NO<sub>3</sub>-F, 4500NO<sub>2</sub>-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S<sub>2</sub>-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B.)

*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.)

**Analytes Not Accredited by NELAP**

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



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 |
| Methapyrillene       | EPA 8270C |
| Pronamide            | EPA 8270C |
| Propionitrile        | EPA 8260B |
| Pyridine             | EPA 8260B |

**Benzidines**

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

**Chlorinated Hydrocarbon Pesticides**

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

Serial No.: 39518

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.



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) |
|------------|---------------------|

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NELAP Recognized

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



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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 |

**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 |

**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 |

**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  |

**Organophosphate Pesticides**

|         |           |
|---------|-----------|
| Famphur | EPA 8270C |
|---------|-----------|

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ENVIRONMENTAL ANALYSES NON POTABLE WATER  
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**Polynuclear Aromatics**

**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 |

|              |           |
|--------------|-----------|
| 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<br>EPA 6020 |
| Cadmium, Total   | EPA 200.8 Rev. 5.4<br>EPA 6020 |
| Chromium, Total  | EPA 200.8 Rev. 5.4<br>EPA 6020 |
| Copper, Total    | EPA 200.8 Rev. 5.4<br>EPA 6020 |
| Lead, Total      | EPA 200.8 Rev. 5.4<br>EPA 6020 |
| Manganese, Total | EPA 200.8 Rev. 5.4             |

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All approved analytes are listed below:*

**Wastewater Metals I**

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

**Wastewater Metals II**

|                  |                    |
|------------------|--------------------|
| Aluminum, Total  | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |
| Antimony, Total  | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |
| Arsenic, Total   | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |
| Beryllium, Total | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |
| Mercury, Total   | EPA 1631E          |
|                  | EPA 245.1 Rev. 3.0 |
| Selenium, Total  | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |
| Vanadium, Total  | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |
| Zinc, Total      | EPA 200.8 Rev. 5.4 |
|                  | EPA 8020           |

**Wastewater Metals III**

|               |                    |
|---------------|--------------------|
| Cobalt, Total | EPA 200.8 Rev. 5.4 |
|               | EPA 8020           |

**Wastewater Metals III**

|                   |                    |
|-------------------|--------------------|
| Molybdenum, Total | EPA 200.8 Rev. 5.4 |
|                   | EPA 8020           |
| Thallium, Total   | EPA 200.8 Rev. 5.4 |
|                   | EPA 8020           |

**Wastewater Miscellaneous**

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

**Sample Preparation Methods**

|           |
|-----------|
| EPA 3510C |
| EPA 3511  |
| EPA 5030B |
| EPA 9010B |

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

**Polychlorinated Biphenyls**

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

EPA 8082

**Serial No.: 39519**

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

**Acrylates**

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

**Amines**

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

**Benzidines**

|                        |           |
|------------------------|-----------|
| 3,3'-Dichlorobenzidine | EPA 8270C |
|------------------------|-----------|

**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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MANSFIELD, MA 02048

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EPA Lab Code: MA00030

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

**Chlorinated Hydrocarbon Pesticides**

|                         |           |
|-------------------------|-----------|
| Kepone                  | EPA 8081A |
| Lindane                 | EPA 8081A |
| Methoxychlor            | EPA 8081A |
| Pentachloronitrobenzene | EPA 8081A |
|                         | 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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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER  
RICHARD F. DAINES, M.D.



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

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*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

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE*

*All approved analytes are listed below:*

**Miscellaneous**

Hydrogen Ion (pH) EPA 9045C

**Nitroaromatics and Isophorone**

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

**Nitrosoamines**

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

**Organophosphate Pesticides**

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

**Phthalate Esters**

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

**Polychlorinated Biphenyls**

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

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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<br>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<br>EPA 8270C |
| 1,3,5-Trimethylbenzene | EPA 8260B              |
| 1,3-Dichlorobenzene    | EPA 8260B<br>EPA 8270C |
| 1,4-Dichlorobenzene    | EPA 8260B<br>EPA 8270C |
| 2-Chlorotoluene        | EPA 8260B              |

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

**Purgeable Aromatics**

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

**Purgeable Halocarbons**

|                             |           |
|-----------------------------|-----------|
| 1,1,1,2-Tetrachloroethane   | EPA 8260B |
| 1,1,1-Trichloroethane       | EPA 8260B |
| 1,1,2,2-Tetrachloroethane   | EPA 8260B |
| 1,1,2-Trichloroethane       | EPA 8260B |
| 1,1-Dichloroethane          | EPA 8260B |
| 1,1-Dichloroethene          | EPA 8260B |
| 1,1-Dichloropropene         | EPA 8260B |
| 1,2,3-Trichloropropene      | 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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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
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**

|                      |           |
|----------------------|-----------|
| 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 |

**Semi-Volatile Organics**

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

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**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 |
|-----------------|-----------|

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320 FORBES BOULEVARD  
MANSFIELD, MA. 02048

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**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) (Colliert)            |
|                                         | SM 18-21 9222B(97)/40CFR141.21 (97) (S&B) |
| Standard Plate Count                    | SM 18-21 9215B                            |

**Drinking Water Metals I**

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

**Drinking Water Metals I**

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

**Drinking Water Metals II**

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

**Drinking Water Metals III**

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

**Drinking Water Miscellaneous**

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

**Drinking Water Non-Metals**

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

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**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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**Volatile Halocarbons**

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

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**Acrylates**

Acrolein (Propenal)

EPA 624  
EPA 8260B

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

**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

**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

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**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                                 |                           | Nitroaromatics and Isophorone        |                                      |
|-----------------------------------------|---------------------------|--------------------------------------|--------------------------------------|
| Acidity                                 | SM 18-20 2310B.4a (97)    | Isophorone                           | EPA 8270C                            |
| Alkalinity                              | SM 18-21 2320B (97)       | Methyl-2,4,6-Trinitrophenylhydrazine | EPA 8330                             |
| Calcium Hardness                        | EPA 200.7 Rev. 4.4        | Nitrobenzene                         | EPA 625                              |
| Chloride                                | EPA 300.0 Rev. 2.1        |                                      | EPA 8270C                            |
|                                         | LACHAT 10-117-07-1 A or B |                                      | EPA 8330                             |
|                                         | SM 18-20 4500-Cl- E (97)  | Octahydro-tetranitro-tetrazocine     | EPA 8330                             |
| Fluoride, Total                         | EPA 300.0 Rev. 2.1        | Nitrosoamines                        |                                      |
|                                         | SM 18-21 4500-F C (97)    |                                      |                                      |
| Hardness, Total                         | EPA 200.7 Rev. 4.4        |                                      | EPA 625                              |
| Sulfate (as SO <sub>4</sub> )           | EPA 300.0 Rev. 2.1        |                                      | EPA 8270C                            |
|                                         | SM 15 426 C               |                                      | EPA 625                              |
|                                         |                           |                                      | EPA 8270C                            |
|                                         |                           |                                      | EPA 625                              |
|                                         |                           |                                      | EPA 8270C                            |
| Nitroaromatics and Isophorone           |                           | Nutrient                             |                                      |
| 1,3,5-Trinitrobenzene                   | EPA 8330                  | Ammonia (as N)                       | EPA 350.1 Rev. 2.0                   |
| 1,3-Dinitrobenzene                      | EPA 8330                  |                                      | LACHAT 10-107-06-1-B                 |
| 2,4,6-Trinitrotoluene                   | EPA 8330                  |                                      | SM 18 4500-NH <sub>3</sub> H         |
| 2,4-Dinitrotoluene                      | EPA 625                   |                                      | EPA 351.1 Rev. 1978                  |
|                                         | EPA 8270C                 | Kjeldahl Nitrogen, Total             | LACHAT 10-107-06-2                   |
|                                         | EPA 8330                  |                                      | EPA 300.0 Rev. 2.1                   |
| 2,6-Dinitrotoluene                      | EPA 625                   | Nitrate (as N)                       | EPA 353.2 Rev. 2.0                   |
|                                         | EPA 8270C                 |                                      | LACHAT 10-107-04-1-C                 |
|                                         | EPA 8330                  |                                      | SM 18-21 4500-NO <sub>3</sub> F (00) |
| 2-Amino-4,6-dinitrotoluene              | EPA 8330                  |                                      | SM 18-21 4500-NO <sub>2</sub> B (00) |
| 2-Nitrotoluene                          | EPA 8330                  | Nitrite (as N)                       | SM 18-21 4500-P E                    |
| 3-Nitrotoluene                          | EPA 8330                  | Orthophosphate (as P)                | SM 18-21 4500-P E                    |
| 4-Amino-2,6-dinitrotoluene              | EPA 8330                  | Phosphorus, Total                    |                                      |
| 4-Nitrotoluene                          | EPA 8330                  |                                      |                                      |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | EPA 8330                  |                                      |                                      |
| Isophorone                              | EPA 625                   |                                      |                                      |

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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

PCB-1221 EPA 8082

PCB-1232 EPA 608

PCB-1242 EPA 8082

PCB-1248 EPA 608

PCB-1254 EPA 8082

**Polychlorinated Biphenyls**

PCB-1260 EPA 608

PCB-1262 EPA 8082

PCB-1268 EPA 8082

**Polynuclear Aromatics**

Acenaphthene EPA 625

Acenaphthylene EPA 8270C

Anthracene EPA 625

Benzo(a)anthracene EPA 8270C

Benzo(a)pyrene EPA 625

Benzo(b)fluoranthene EPA 8270C

Benzo(g,h,i)perylene EPA 625

Benzo(k)fluoranthene EPA 8270C

Chrysene EPA 625

Dibenzo(a,h)anthracene EPA 8270C

Fluoranthene EPA 625

Fluorene EPA 8270C

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**Polynuclear Aromatics**

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

**Priority Pollutant Phenols**

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

**Priority Pollutant Phenols**

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

**Purgeable Aromatics**

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

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WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148  
EPA Lab Code: MA00086

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National Environmental Laboratory Accreditation Conference Standards for the category  
**ENVIRONMENTAL ANALYSES NON POTABLE WATER**  
All approved analytes are listed below:

**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**

|                          |           |
|--------------------------|-----------|
| 1,2-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   |

**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   |

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



Expires 12:01 AM April 01, 2010  
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**Purgeable Halocarbons**

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

**Purgeable Organics**

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

**Residue**

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

**Semi-Volatile Organics**

|               |           |
|---------------|-----------|
| 1,1'-Biphenyl | EPA 8270C |
|---------------|-----------|

**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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**Wastewater Metals I**

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| Iron, Total      | EPA 6010B                                                         |
| Lead, Total      | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Magnesium, Total | EPA 200.7 Rev. 4.4<br>EPA 6010B                                   |
| Manganese, Total | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Nickel, Total    | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Potassium, Total | EPA 200.7 Rev. 4.4<br>EPA 6010B                                   |
| Silver, Total    | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Sodium, Total    | EPA 200.7 Rev. 4.4<br>EPA 6010B                                   |

**Wastewater Metals II**

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| Antimony, Total  | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Arsenic, Total   | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Beryllium, Total | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Chromium VI      | EPA 7196A<br>SM 18-19 3500-Cr D                                   |
| Mercury, Total   | EPA 245.1 Rev. 3.0<br>EPA 245.2 Rev. 1974<br>EPA 7470A            |
| Selenium, Total  | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Vanadium, Total  | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
| Zinc, Total      | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B             |

**Wastewater Metals II**

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| Aluminum, Total | EPA 200.7 Rev. 4.4<br>EPA 200.8 Rev. 5.4<br>EPA 6010B<br>EPA 6020 |
|-----------------|-------------------------------------------------------------------|

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

**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

Silica, Dissolved SM 14 510C  
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

Surfactant (MBAS) SM 18-20 4500-S D (00)  
SM 18-21 5540C (00)

**Sample Preparation Methods**

EPA 3005A  
EPA 3015  
EPA 3510C  
EPA 5030B  
EPA 9010B  
EPA 8030B  
SM 18-20 4500-NH3 B (97)

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All approved subcategories and/or analytes are listed below:

**Nutrient**

Nitrite (as N)

LACHAT 10-107-04-1-C

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

**Acrylates**

|                     |           |
|---------------------|-----------|
| Acrolein (Propenal) | EPA 8260B |
| Acrylonitrile       | EPA 8260B |

**Amines**

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

**Benzidines**

|                        |           |
|------------------------|-----------|
| 3,3'-Dichlorobenzidine | EPA 8270C |
|------------------------|-----------|

**Characteristic Testing**

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

**Chlorinated Hydrocarbon Pesticides**

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

**Chlorinated Hydrocarbon Pesticides**

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

**Chlorinated Hydrocarbons**

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

**Chlorophenoxy Acid Pesticides**

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

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

**Priority Pollutant Phenols**

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

**Purgeable Aromatics**

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

**Purgeable Halocarbons**

|                                       |           |
|---------------------------------------|-----------|
| 1,1,1-Trichloroethane                 | EPA 8260B |
| 1,1,2,2-Tetrachloroethane             | EPA 8260B |
| 1,1,2-Trichloroethane                 | EPA 8260B |
| 1,1,2-Trifluoro-1,2,2-Trichloroethane | EPA 8260B |
| 1,1-Dichloroethane                    | EPA 8260B |
| 1,1-Dichloroethene                    | EPA 8260B |
| 1,2-Dibromo-3-chloropropane           | EPA 8260B |
| 1,2-Dibromoethane                     | EPA 8260B |
| 1,2-Dichloroethane                    | EPA 8260B |
| 1,2-Dichloropropane                   | EPA 8260B |
| Bromochloromethane                    | EPA 8260B |
| Bromodichloromethane                  | EPA 8260B |
| Bromoform                             | EPA 8260B |
| Bromomethane                          | EPA 8260B |
| Carbon tetrachloride                  | EPA 8260B |
| Chloroethane                          | EPA 8260B |
| Chloroform                            | EPA 8260B |
| Chloromethane                         | EPA 8260B |
| cis-1,2-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 |

Serial No.: 39218

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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER  
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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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NELAP Recognized

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS  
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**Polynuclear Aromatics**

Benzo(a)pyrene  
Naphthalene

EPA TO-13  
EPA TO-13

**Serial No.: 39219**

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**NELAP Recognized**