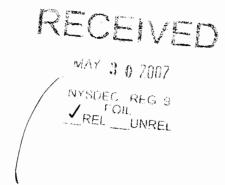
ENSR AECOM

The RETEC Group, Inc.

1001 West Seneca Street, Suite 204, Ithaca, New York 14850-3342 T 607.277.5716 F 607.277.9057 www.ensr.aecom.com

May 22, 2007

Mr. Charles Burke National Fuel Gas Distribution Corporation Building 8 365 Mineral Springs Road Buffalo, NY 14210



Subject: Groundwater and Surface Water Monitoring Results

April 2007

Mineral Springs Road MGP Site

Dear Charlie

This report provides the results of a groundwater and surface water sampling event completed by The RETEC Group, Inc. (RETEC) on April 3 and 4, 2007, at the Mineral Springs Road former MGP site in West Seneca (and Buffalo), New York.

The work at the Mineral Springs site is being conducted under a NYSDEC Voluntary Cleanup Agreement (number B9-0538-98-08) as described in the Remedial Design, dated February 10, 1999, and the Final Engineering Report, Volume II – Operations and Maintenance Plan, dated May 2002.

### Summary

A total of 13 groundwater samples and 2 surface water samples were collected and analyzed. A total of 14 depth-to-water measurements were taken. Sampling locations are shown in the attached figure. Analytical results are summarized in the attached table.

Concentrations of BTEX and/or PAH compounds were above NYSDEC standard or guidance values in three of the five onsite groundwater samples, but not detected in the two surface water samples.

Total cyanide concentrations exceeded the NYSDEC groundwater standard in eight of the nine groundwater samples analyzed. Free cyanide was not detected in the groundwater, but was detected (at concentrations below the NYSDEC standards) in the two surface water samples.

### **Groundwater Elevations**

Depth-to-water measurements were taken at the 13 monitoring wells and at surface water sampling point SW-01. The measurements were used to construct the groundwater contours shown in the attached figure.

At the time of the sampling, groundwater flowed onto the site from the southeast, and then flowed to the northwest towards Calais Street and Mineral Springs Road. Onsite groundwater also appears to discharge to the Class D Stream, which in turn discharges to the Calais Street storm sewer and the municipal wastewater treatment system. These results are consistent with previous sampling events conducted at the site.



Charles Burke Page 2

### Sampling and Analysis

A total of 13 monitoring wells were purged and sampled by a RETEC geologist. Two surface water samples were also collected. Sampling locations are shown on the attached figure.

Severn Trent Laboratories (STL) of Pittsburgh, PA, performed the analyses of the groundwater and surface water samples for hydrocarbon compounds of concern. STL is currently certified to perform the requested analyses under the NYSDOH Environmental Laboratory Approval Program. The samples were analyzed for manufactured gas plant (MGP) indicators using the following methods:

BTEX Method SW846 8260B PAHs Method SW846 8270C

Samples were also sent to Clarkson University of Potsdam, NY (Clarkson) for cyanide analysis using the following methods:

Cyanide (free) Method ASTM D4282-89
Cyanide (total) Method APHA 4500-CN<sup>-</sup>

All sampling and analyses were conducted according to RETEC's Standard Operating Procedures as provided in the project Quality Assurance Plan of June 11, 1999. Additionally, the cyanide samples were protected from light during collection to prevent the dissociation of metal-cyanide compounds, which would artificially elevate free cyanide results. The cyanide samples were also treated with lead carbonate and filtered to remove potential sulfide interferences.

### **Analytical Results and Conclusions**

The results of the laboratory analyses are summarized in the attached table. The laboratory reports and the chain-of-custody forms are attached as well. The locations, sampling objectives, and a discussion of the analytical results for each of the specific areas of interest at the site are provided in the following sections.

### **Upgradient Site Perimeter**

Well MW-17 is located in the southeast corner of the site and monitors upgradient groundwater quality. The results of the analyses indicate that no BTEX or PAH compounds were detected in concentrations greater than the method detection limits. Total cyanide was detected at a concentration of 369  $\mu$ g/L. Free cyanide was not detected.

### **Downgradient Site Perimeter**

Wells MW-20 and MW-21 are located downgradient of the western boundary of the site on Calais Street. Wells MW-13, MW-14, MW-22 and MW-23 are located just inside the northern property boundary near Mineral Springs Road. These six "sentinel" wells monitor groundwater quality downgradient of the site. The groundwater samples from these six wells were analyzed for total and free cyanide.

Five of the wells were found to contain total cyanide in concentrations above the NYSDEC groundwater standard of 200  $\mu$ g/L. Concentrations ranged from 3  $\mu$ g/L at MW-13 to 642  $\mu$ g/L at MW-22. These concentrations are generally consistent with previous results. Free cyanide was not detected in any of the sentinel wells above method detection limits.

Charles Burke Page 3

### **Onsite Purifier Residuals Impacted Areas**

Wells MW-12 and MW-16 monitor groundwater quality at locations of known subsurface deposits of purifier box residuals. These deposits were remediated by capping. Samples from these two wells were analyzed for total and free cyanide.

Total cyanide concentrations were 459  $\mu$ g/L at MW-12 and 317  $\mu$ g/L at MW-16. Free cyanide was not detected in either well.

### **Onsite Hydrocarbon NAPL Impacted Areas**

Wells MW-7, MW-10, MW-11A, and MW-19 monitor onsite groundwater quality downgradient of subsurface soil impacted with hydrocarbon NAPL. Samples from these wells were analyzed for BTEX and PAHs.

BTEX and PAHs were not detected at MW-10. Consistent with previous results, BTEX and PAH compounds were detected above the groundwater standards in MW-7, MW-11A, and MW-19.

### Surface Water

Two surface water samples were collected during this sampling event. Sample SW-01 was collected at the Calais Street storm sewer inlet. Sample SW-02 was collected from the Eastern Drainage Ditch near the Class D Stream. These surface sampling locations monitor the effectiveness of the Eastern Drainage Ditch Cap and also monitor the concentrations of COI in surface water at its most downgradient location at the Mineral Springs site.

BTEX, PAHs, and total cyanide were not detected in either surface water sample. Free cyanide was detected in both samples at concentrations below the NYSDEC standard.

### QA/QC Samples

Quality control samples were collected during the sampling event to meet the requirements of the project QAP.

An equipment blank (EB) was prepared using organic free water supplied by the laboratory that was run over and through a sample collection bailer and through peristaltic pump tubing. No cyanide, BTEX, or PAH compounds were detected in the equipment blank.

A trip blank (TB) sample was prepared by the laboratory and was stored in the sample cooler throughout the sampling event and during transportation back to the laboratory. The trip blank was analyzed for BTEX and no compounds were detected in concentrations greater than the method detection limits.

A duplicate sample was collected from MW-7 and submitted for analysis of BTEX and PAHs. The duplicate results were within the acceptable range.

A duplicate sample was collected from MW-16 and submitted for analysis of total and free cyanide. The duplicate results were within the acceptable range.

### **DNAPL** Recovery Test Well (RTW-1)

During this groundwater sampling event, the Recovery System was operated to purge RTW-1 of DNAPL that had accumulated since the July 2006 sampling event. Approximately ½ gallon of water was pumped out. The water contained only trace amounts (blebs) of NAPL.

If you have any questions or comments, please do not hesitate to call me at (607) 277-5716.

Sincerely yours,

Mark Hofferbert, P.E. Project Engineer

encl: Groundwater Contours (figure)

Laboratory Results Summary (table)

Laboratory Reports

cc: T. Alexander - NFG

D. Flynn - Phillips, Lytle

D. Szymanski - NYSDEC

C. O'Connor - NYSDOH (w. figure/table only)

G. Bailey - NYSDEC (w. figure/table only)

G. Litwin - NYSDOH (w. figure/table only)

File: NFGD3-14852-300

# Groundwater and Surface Water Monitoring Results Mineral Springs Road MGP Site

April 2007

| Water Elevation (feet) | Cyanide, free | Cyanide, total | CYANIDE (µg/L) | 2-Methylnaphthalene | Benzo(g,h,i)perylene | Dibenz(a,h)anthracene | Indeno(1,2,3-cd)pyrene | Benzo(a)pyrene | Benzo(k)fluoranthene | Benzo(b)fluoranthene | Chrysene | Benzo(a)anthracene | Pyrene | Fluoranthene | Anthracene | Phenanthrene | Fluorene | Acenaphthene | Acenaphthylene | Naphthalene | PAHs (µg/L) | Xylene (sum of isomers) | Ethylbenzene | Toluene | Benzene  | BTEX (µg/L) | Sample Date: | Sample ID:     | PARAMETER     |
|------------------------|---------------|----------------|----------------|---------------------|----------------------|-----------------------|------------------------|----------------|----------------------|----------------------|----------|--------------------|--------|--------------|------------|--------------|----------|--------------|----------------|-------------|-------------|-------------------------|--------------|---------|----------|-------------|--------------|----------------|---------------|
| 582.58                 |               | ı              |                | 270 J               | nd                   | nd.                   |                        | nd             | nd                   | nd.                  | nd       | nd                 | nd     | nd.          | nd         | nd           | nd       | nd           | nd             | 3700        |             | 1400                    | 2500 1       | 620     | 2000     |             | 04/03/07     | MW-07          |               |
| 582.06                 | 1             | -              |                | nd                  | nd                   | nd.                   | 2                      | nd             | nd                   | nd                   | a.       | a.                 | nd     | ъ            | nd         | ď            | nd       | nd           | nd             | nd          |             | nd                      | nd           | ъ       | nd       |             | 04/03/07     | MW-10          |               |
| 583.07                 |               | i              |                | nd                  | nd                   | a                     | nd                     | nd             | nd                   | nd                   | nd       | nd                 | æ      | nd           | nd         | nd.          | nd       | a            | 5.8 J          | nd          |             | 5.5 J                   | ر 2.8        | 0.99 J  | 100      |             | 04/03/07     | MW-IIA         |               |
| 581.88                 | nd            | 459            |                | 1                   | 1                    | -                     | ı                      | ı              |                      | ı                    | ı        | ı                  | 1      | i            | !          | ı            | !        | ŀ            |                | ı           |             | ı                       | 1            | 1       | ı        |             | 04/03/07     | MW-12          |               |
| 580.29                 | nd.           | ω              |                | ı                   | 1                    | 1                     | 1                      | i              | 1                    | ı                    | 1        |                    | ı      | 1            | !          | i            | ı        | i            | i              | ı           |             |                         | ŀ            | ı       | ı        |             | 04/04/07     | MW-13          |               |
| 577.89                 | nd            | 404            |                | ı                   | ı                    |                       | 1                      |                | ŀ                    | ı                    |          | 1                  | 1      | ı            | i          | 1            | ı        | <u> </u>     | ı              | -           |             | ı                       | į            | ı       |          |             | 04/03/07     | MW-14          |               |
| 1                      |               | 1              | <u> </u>       | 1                   | 1                    | 1                     |                        | į              | 1                    |                      | ı        |                    | -      | ı            | ì          | ì            | 1        | į            | :              | 1           |             | 1                       | 1            | ı       | ı        |             | 04/03/07     | MW-15          |               |
| 582.87                 | nd            | 317            |                | ı                   | 1                    | ı                     | ı                      | 1              | ı                    | ı                    |          | !                  | -      | ı            | i          | 1            | 1        |              | ı              | -           |             | ı                       | 1            | ł       | 1        |             | 04/03/07     | MW-16          | GROUNDWATER   |
| 582.87                 | nd            | 369            |                | nd                  | nd                   | 2                     | nd                     | nd             | nd                   | nd                   | nd       | nd                 | nd     | nd           | nd         | nd           | nd       | a            | nd             | nd          |             | nd                      | nd           | nd      | nd       |             | 04/03/07     | MW-17          | TER           |
| 582.26                 | ì             |                | ×              | æ                   | nd                   | nd                    | <u>a</u>               | nd             | nd                   | nd                   | nd.      | nd                 | nd     | nd           | nd         | nd           | nd       | nd           | æ              | 3100        |             | 710 J                   | 220 J        | nd      | 6700     |             | 04/03/07     | MW-19          |               |
| 579.03                 | nd            | 469            |                | ı                   | ı                    | I                     | ı                      | ı              |                      | ı                    | ı        | ı                  | 1      | i            | I          | 1            | I        | !            | 1              | ŀ           |             | ı                       | 1            | ı       | i        |             | 04/04/07     | MW-20          |               |
| 578.38                 | nd            | 574            |                | I                   | ı                    | !                     | ı                      | ı              | ;                    | 1                    | ı        | 1                  | ł      | i            | i          | !            | ŀ        | i            | ı              | I           |             | ı                       | i            | -       | I        |             | 04/04/07     | MW-21          |               |
| 581.75                 | a             | 642            |                | 1                   | 1                    | 1                     | ŧ                      | 1              | ı                    | i                    | ı        | 1                  | ı      | 1            | I          | ı            | 1        | 1            | 1              | 1           |             | 1                       | 1            | ı       | 1        |             | 04/04/07     | MW-22          |               |
| 578.95                 | nd            | 326            |                | ì                   | !                    | ı                     | ŧ                      | ł              | í                    | ı                    | i        | ı                  | i      | ı            | i          | 1            | 1        | I            | ŀ              | I           |             | 1                       | i            | ı       | ı        |             | 04/03/07     | MW-23          |               |
| Z                      | F             | 200            |                | Ę                   | ¥                    | ¥                     | 0.002 *                | ND             | 0.002 *              | 0.002 *              | 0.002 *  | 0.002 *            | 50 *   | 50 *         | 50 *       | 50 *         | 50 *     | 20 *         | Ĕ,             | 10 *        |             | 5 (each)                | Si .         | 5       | <b>-</b> |             | Standard (1) | Groundwater    |               |
| 582.8                  | 5.0           | nd             |                | nd                  | nd.                  | nd                    | nd                     | D.             | nd.                  | nd                   | nd       | nd                 | nd     | nd           | nd         | nd           | nd       | nd           | nd             | nd          |             | nd.                     | nd           | nd      | æ        |             | 04/03/07     | SW-01          |               |
| Approx. 582.9          | 8.6           | PG.            |                | <u>a</u>            | nd                   | nd                    | nd                     | nd             | nd                   | nd.                  | nd       | nd                 | Пď     | nd           | nd         | nd           | nd       | nd           | М              | nd          | _           | nd                      | nd           | nd      | nd       |             | 04/03/07     | SW-02          | SURFACE WATER |
| <u> </u>               | 22            | 9000           |                | <u> </u>            | N.                   | Z.                    | ž                      | 0.0012 *       | ¥.                   | ¥                    | ř        | 0.23 *             | 42 *   | ¥            | 35 *       | 45 *         | 4.8 *    | 48 *         | ž              | 110 *       |             | 590 *                   | 150 *        | 6000    | 10       |             | Standard (1) | Class D Stream | TER           |
| 1                      | ı             | ,              |                | -                   | ı                    | ı                     | ı                      | 1              | 1                    | ı                    | ı        | 1                  | 1      | ı            | ı          |              | 1        | -            | 1              | I           |             | nd.                     | nd           | nd      | nd.      |             | 04/04/07     | THE            |               |
| -                      | nd            | nd             |                | nd                  | a                    | nd                    | nd                     | nd             | nd                   | nd                   | nd       | nd                 | nd     | nd           | nd         | nd           | nd       | nd           | nd             | nd          |             | nd                      | nd           | nd.     | nd       |             | 04/04/07     | ER.            | ٥             |
| 2 2 1                  | ı             | ì              |                | 210 J               | a                    | Пd                    | nd                     | nd             | nd                   | nd                   | nd       | nd                 | nd     | nd           | nd         | <u>-</u>     | nd       | nd           | æ              | 3100        |             | 1600                    | 2700         | 730     | 2000     | 1           | 04/03/07     | MW-07 Dun      | QA/QC         |
| !                      | nd            | 453            |                |                     | 1                    | ı                     | i                      | 1              | !                    | i                    | ı        | 1                  | !      | ı            | 1          | !            | ł        | ı            |                | -           |             |                         |              |         |          |             | 04/04/07     |                |               |

Notes:

NL Not listed

nd Not detected above method detection limit

--- Not analyzed

J, E Indicates laboratory estimated value

(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1)
 Groundwater or Surface Water Guidance Value (no Standard value listed).
 Concentrations exceeding NYSDEC regulatory standard or guidance value.

### **Chain of Custody Record**

0814

The RETEC Group, Inc.
1001 W. Seneca Street, Suite 204 • Ithaca, NY 14850-3342
(607) 277-5716 Phone • (607) 277-9057 Fax
www.retec.cogn



| ~~      | rage i or  |                  | Donath Co.      | Order #:                             |                   | Comments, Special Lab Sample ID   Instructions, etc. (to be completed by lab) |                 |      |      |        |      |             |             |        |           |            |              |            |               |                    |  |     | ed By Laboratory):          | Turnaround Sample Receipt | \                                 | KÓ         |                             | 1 Week Li Received Containers Intact? Other | Temperature?  |
|---------|--|------------------|-----------------|--------------------------------------|-------------------|---|-----------------|------|------|--------|------|-------------|-------------|--------|-----------|------------|--------------|------------|---------------|--------------------|--|-----|-----------------------------|---------------------------|-----------------------------------|------------|-----------------------------|---|---|
| 8-2     | 2 7 hy 7 7 10 5 Pals   | W Les Washington | SISKIE          | ンシング                                 |                   |   |                 |      |      |        |      |             |             |        |           |            |              |            |               |                    |  |     | ei<br>E                     | 1700 QA/QC Level          |                                   | _  <br>_ : |                             | Other                                       | 3   |
| 14852   | Sampler (Print Name): Scott Hau w. VI L. Sampler (Print Name): Scott | 2                | Airbill Number: | Laboratory Receiving: Clarkson Univ. |                   | le Matrix Containers  | 41307 1308 Ag Z | 1330 | 1400 | 1 1241 | 1530 | 413/27 1548 | 414107 0900 |        | 1/30 1712 | 4/467 0925 | 4/301 1730 H | 4/4/1 1028 | 4/4/07 1020 V | 1 P P OHA! 20/1/11 |  |     | Received by: (Signature)    | <                         | Received by: (Signature) Date:    |            | Received by: (Signature)    |   | OCIA DMIOAIO  |
| Springs | t at   | PO7 of           | 14850           | 10: 607.77-5716                      | Fax: 607-777 9057 | Field Sample ID   | 4 LI MW         | Swoz | 1015 | WW (a  | MW23 |             |             | 4/41.7 |           | 12mw       | 021 MW       |            |               | (LOhoh             |  | (C) | Keingrafing by: (Signature) | $\Lambda$                 | Relinquished by: (Signature) Rece |            | Relinquished by (Signature) |   | THE COLUMN TWO IS NOT |

Yellow: PM Copy White: Lab Copy

Gold: PM/QA/QC Copy

Pink: Field Copy

## Chain of Custody Record

0815

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| Fax. 667-77-5716  Fax. 667-77-716  Fax. 667-77-716  MWO 7  MW 10  MW 17  MW 19  MW 19  MW 19  MW 19 | Shipment Method: Fer Ex  Airbill Number:  Laboratory Receiving: 576 / 14  Sample Sample Sample Matrix  Date Time Sample Matrix  1149  1256  1256  1256  1400  1400  1400 | Number of Containers of Contai | 2928                                 |  | Purchase Order #:  Comments, Special Instructions, etc.  | (to be completed by lab) |
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| ed by: (Signature)  | d by: (Signature)  Tool (7)  Signature)  by: (Signature)   | Date: Time:  Date: Time:  Date: Time:  | Sample Custodian R QA/QC Level Level | Sample Custodian Remarks (Completed By Laboratory):   QA/QC Level   Turnaround   Total # Con | y Laboratory): Sample Receipt Total # Containers Received? COC Seals Present? COC Seals Intact? Received Containers Intact? Temperature? | eceipt                   |





Scott Hauswirth
The RETEC Group, Inc.
1001 W. Seneca St., Suite 204
Ithaca, NY 14850-3342

Re: Project Number NFGD3-14852 groundwater samples analyzed by Eleanor Hopke, Clarkson University

Dear Mr. Hauswirth:

Thirteen groundwater samples were received from The RETEC Group, Inc. on April 5, 2007 The samples arrived cold (4°C) in brown plastic bottles, two 250-ml bottles for each sample. Requested analyses were Total Cyanide and Free Cyanide by Microdiffusion.

The duplicate sample containers were composited before analysis. Laboratory matrix spikes and matrix spike duplicates, check standards and reagent blanks were analyzed along with the samples.

The following methods were used to analyze the samples:

Total Cyanide - APHA Standard Methods 4500-CN C. "Total Cyanide after Distillation" and APHA Standard Methods 4500-CN E., "Colorimetric Method."

Free Cyanide - ASTM D4282-95. "Standard Test Method for Determination of Free Cyanide in Water and Wastewater by Microdiffusion." using lower concentration standards to better bracket the sample concentrations, and substituting APHA 4500-CN D. to standardize the stock cyanide standard. Additional buffer was added to lower the pH of the soil extraction liquids adequately for the analysis.

For Diffusible and Total Cyanide, the stock cyanide standard was calibrated using Standard Methods, 4500-CN D., "Titrimetric Method."

The analytical results follow:

### Groundwater Samples TOTAL CYANIDE and FREE CYANIDE Results in µg CN<sup>-</sup>/L

| ID               | TOTAL CN | FREE CYANIDE |
|------------------|----------|--------------|
| MW-12            | 459      | <2.3         |
| MW-13            | 3        | <2.3         |
| MW-14            | 404      | <2.3         |
| MW-16            | 317      | <2.3         |
| MW-17            | 369      | <2,3         |
| MW-20            | 469      | <2.3         |
| MW-21            | 574      | <2.3         |
| MW-22            | 642      | <2.3         |
| MW-23            | 326      | <2.3         |
| MW-120           | 453      | <2.3         |
| SW-01            | <3       | 5.0          |
| SW-02            | <3       | 8.6          |
| EB 040407        | <3       | <2.3         |
| LAB MATRIX SPIKE | 104.7%   | 95.9%        |
| MATRIX SPIKE DUP | 101.8%   | 89.5%        |
| REAGENT BLANK    | <3       | <2.3         |
| CHECK STANDARD   | 100.0%   | 108.0%       |

I will be very glad to answer any questions or give further information about the analyses. Thank you for the opportunity to analyze them for you.

Sincerely,

Eleanor Hopke

Research Technician

Eleanon Hopke

Tel: 315-268-3772

e-mail: hopkeef@clarkson.edu



STL Pittsburgh 301 Aipha Drive Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468 www.stl-inc.com

### ANALYTICAL REPORT

PROJECT NO. NFGD3-14852-300

Retec-Mineral Springs

Lot #: C7D050356

Jim Edwards

The RETEC Group Inc

SEVERN TRENT LABORATORIES, INC.

Dave Dunlap

Project Manager

### Client Sample ID: MW07

### GC/MS Volatiles

| Lot-Sample #: C7D050356-001 | Work Order #: JTFK01AA  | Matrix: WATER     |
|-----------------------------|-------------------------|-------------------|
| Date Sampled: 04/03/07      | Date Received: 04/05/07 | MS Run #: 7102138 |
| Prep Date: 04/12/07         | Analysis Date: 04/12/07 |                   |
| Prep Batch #: 7102207       |                         |                   |

(64 - 128)

Dilution Factor: 100 Method.....: SW846 8260B

|                       |          | REPORTING   |
|-----------------------|----------|-------------|
| PARAMETER             | RESULT   | LIMIT UNITS |
| Benzene               | 2000     | 100 ug/L    |
| Ethylbenzene          | 2500     | 100 ug/L    |
| Toluene               | 620      | 100 ug/L    |
| Xylenes (total)       | 1400     | 300 ug/L    |
|                       | PERCENT  | RECOVERY    |
| SURROGATE             | RECOVERY | LIMITS      |
| Toluene-d8            | 93       | (71 - 118)  |
| 1,2-Dichloroethane-d4 | 107      | (64 - 135)  |
| 4-Bromofluorobenzene  | 92       | (70 - 118)  |

103

Dibromofluoromethane

### Client Sample ID: MW07

### GC/MS Semivolatiles

| Lot-Sample #: C7D050356-001 | Work Order #: JTFK01AC  | Matrix WATER     |
|-----------------------------|-------------------------|------------------|
| Date Sampled: 04/03/07      | Date Received: 04/05/07 | MS Run # 7100072 |
| Prep Date: 04/10/07         | Analysis Date: 04/14/07 |                  |

**Prep Date....:** 04/10/07

Prep Batch #...: 7100126 Dilution Factor: 96 Method. · SW846 8270C

|                        |            | REPORTING  |      |
|------------------------|------------|------------|------|
| PARAMETER              | RESULT     | LIMIT      | UNIT |
| Acenaphthene           | ND         | 960        | ug/L |
| Acenaphthylene         | <b>N</b> D | 960        | ug/L |
| Anthracene             | ND         | 960        | ug/L |
| Benzo(a)anthracene     | ND         | 960        | ug/L |
| Benzo(b) fluoranthene  | ND         | 960        | ug/L |
| Benzo(k) fluoranthene  | ND         | 960        | ug/L |
| Benzo(ghi)perylene     | ND         | 960        | ug/L |
| Benzo(a) pyrene        | ND         | 960        | ug/L |
| Chrysene               | ND         | 960        | ug/L |
| Fluoranthene           | ND         | 960        | ug/L |
| Fluorene               | ND         | 960        | ug/L |
| Indeno(1,2,3-cd)pyrene | ND         | 960        | ug/L |
| 2-Methylnaphthalene    | 270 J      | 960        | ug/L |
| Naphthalene            | 3700       | 960        | ug/L |
| Phenanthrene           | ND         | 960        | ug/L |
| Pyrene                 | ND         | 960        | ug/L |
| Dibenzo(a,h)anthracene | ND         | 960        | ug/L |
|                        | PERCENT    | RECOVERY   |      |
| SURROGATE              | RECOVERY   | LIMITS     | _    |
| 2,4,6-Tribromophenol   | NC, DIL    | (19 - 138) |      |
| 2-Fluorobiphenyl       | NC, DIL    | (35 - 115) | ı    |
| 2-Fluorophenol         | NC, DIL    | (10 - 118) |      |
| Nitrobenzene-d5        | NC, DIL    | (39 - 115) |      |
| Phenol-d5              | NC, DIL    | (18 - 115) |      |
| Terphenyl-d14          | NC, DIL    | (17 - 129) |      |

### Note(s):

NC The recovery and/or RPD were not calculated.

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

### Client Sample ID: MW10

### GC/MS Volatiles

Lot-Sample #...: C7D050356-002 Work Order #...: JTFK41AA Matrix.....: WATER

Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #.....: 7102138

(64 - 128)

Prep Date....: 04/12/07 Analysis Date..: 04/12/07

Prep Batch #...: 7102207

Dibromofluoromethane

Dilution Factor: 1 Method.....: SW846 8260B

|                       |          | REPORTING  |       |
|-----------------------|----------|------------|-------|
| PARAMETER             | RESULT   | LIMIT      | UNITS |
| Benzene               | ND       | 1.0        | ug/L  |
| Ethylbenzene          | ND       | 1.0        | ug/L  |
| Toluene               | ND       | 1.0        | ug/L  |
| Xylenes (total)       | ND       | 3.0        | ug/L  |
|                       | PERCENT  | RECOVERY   |       |
| SURROGATE             | RECOVERY | LIMITS     | _     |
| Toluene-d8            | 97       | (71 - 118) | -     |
| 1,2-Dichloroethane-d4 | 101      | (64 - 135) |       |
| 4-Bromofluorobenzene  | 86       | (70 - 118) |       |

115

### Client Sample ID: MW10

### GC/MS Semivolatiles

Lot-Sample #...: C7D050356-002 Work Order #...: JTFK41AC Matrix.....: WATER

Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #....: 7100072

Prep Date....: 04/10/07 Analysis Date..: 04/16/07

**Prep Batch #...:** 7100126

Dilution Factor: 1.02 Method....: SW846 8270C

|                        |        | REPORTIN | 1G    |
|------------------------|--------|----------|-------|
| PARAMETER              | RESULT | LIMIT    | UNITS |
| Acenaphthene           | ND     | 10       | ug/L  |
| Acenaphthylene         | ND     | 10       | ug/L  |
| Anthracene             | ND     | 10       | ug/L  |
| Benzo(a)anthracene     | ND     | 10       | ug/L  |
| Benzo(b) fluoranthene  | ND     | 10       | ug/L  |
| Benzo(k) fluoranthene  | ND     | 10       | ug/L  |
| Benzo(ghi)perylene     | ND     | 10       | ug/L  |
| Benzo(a) pyrene        | ND     | 10       | ug/L  |
| Chrysene               | ND     | 10       | ug/L  |
| Fluoranthene           | ND     | 10       | ug/L  |
| Fluorene               | ND     | 10       | ug/L  |
| Indeno(1,2,3-cd)pyrene | ND     | 10       | ug/L  |
| 2-Methylnaphthalene    | ND     | 10       | ug/L  |
| Naphthalene            | ND     | 10       | ug/L  |
| Phenanthrene           | ND     | 10       | ug/L  |
| Pyrene                 | ND     | 10       | ug/L  |
| Dibenzo(a,h)anthracene | ND     | 10       | ug/L  |

|                      | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
| SURROGATE            | RECOVERY | LIMITS     |
| 2,4,6-Tribromophenol | 68       | (19 - 138) |
| 2-Fluorobiphenyl     | 59       | (35 - 115) |
| 2-Fluorophenol       | 58       | (10 - 118) |
| Nitrobenzene-d5      | 59       | (39 - 115) |
| Phenol-d5            | 59       | (18 - 115) |
| Terphenyl-d14        | 70       | (17 - 129) |

### Client Sample ID: MW11A

### GC/MS Volatiles

Lot-Sample #...: C7D050356-005 Work Order #...: JTFK81AA Matrix.....: WATER
Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #.....: 7102138

Analysis Date..: 04/12/07

Prep Date....: 04/12/07 Prep Batch #...: 7102207

Dilution Factor: 5 Method.....: SW846 8260B

| PARAMETER             | RESULT   | REPORTING<br>LIMIT | UNITS |
|-----------------------|----------|--------------------|-------|
| Benzene               | 100      | 5.0                | ug/L  |
| Bthylbenzene          | 2.8 J    | 5.0                | ug/L  |
| Toluene               | 0.99 Ј   | 5.0                | ug/L  |
| Xylenes (total)       | 5.5 J    | 15                 | ug/L  |
|                       | PERCENT  | RECOVERY           |       |
| SURROGATE             | RECOVERY | LIMITS             |       |
| Toluene-d8            | 94       | (71 - 118)         | -     |
| 1,2-Dichloroethane-d4 | 103      | (64 - 135)         |       |
| 4-Bromofluorobenzene  | 86       | (70 - <b>11</b> 8) |       |
| Dibromofluoromethane  | 105      | (64 - 128)         |       |

### NOTE(S):

J Estimated result. Result is less than RL.

### Client Sample ID: MW11A

### GC/MS Semivolatiles

Lot-Sample #...: C7D050356-005 Work Order #...: JTFK81AC Matrix....: WATER Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #....: 7100072 Analysis Date..: 04/18/07

Prep Date....: 04/10/07

Prep Batch #...: 7100126 Method..... SW846 8270C Dilution Factor: 0.94

|                          |          | REPORTIN | G     |
|--------------------------|----------|----------|-------|
| PARAMETER                | RESULT   | LIMIT    | UNITS |
| Acenaphthene             | ND       | 9.4      | ug/L  |
| Acenaphthylene           | 5.8 J    | 9.4      | ug/L  |
| Anthracene               | ND       | 9.4      | ug/L  |
| Benzo(a)anthracene       | ND       | 9.4      | ug/L  |
| Benzo(b) fluoranthene    | ND       | 9.4      | ug/L  |
| Benzo(k) fluoranthene    | ND       | 9.4      | ug/L  |
| Benzo(ghi)perylene       | ND       | 9.4      | ug/L  |
| Benzo(a) pyrene          | ND       | 9.4      | ug/L  |
| Chrysene                 | ND       | 9.4      | ug/L  |
| Fluoranthene             | ND       | 9.4      | ug/L  |
| Fluorene                 | ND       | 9.4      | ug/L  |
| Indeno(1,2,3-cd)pyrene   | ND       | 9.4      | ug/L  |
| 2-Methylnaphthalene      | ND       | 9.4      | ug/L  |
| Naphthalene              | ND       | 9.4      | ug/L  |
| Phenanthrene             | ND       | 9.4      | ug/L  |
| Pyrene                   | ND       | 9.4      | ug/L  |
| Dibenzo(a, h) anthracene | ND       | 9.4      | ug/L  |
|                          | PERCENT  | RECOVERY |       |
| SURROGATE                | RECOVERY | LIMITS   | _     |
| 2,4,6-Tribromophenol     | 75       | (19 - 13 | 8)    |
| 2-Fluorobiphenyl         | 64       | (35 - 11 | .5)   |
| 2-Fluorophenol           | 62       | (10 - 11 | .8}   |
| Nitrobenzene-d5          | 64       | (39 - 11 |       |
| Phenol-d5                | 62       | (18 - 11 | .5)   |
| Terphenyl-d14            | 78       | (17 - 12 | 9)    |
| NOTE (S):                |          |          |       |

J Estimated result. Result is less than RL.

### Client Sample ID: MW17

### GC/MS Volatiles

Lot-Sample #...: C7D050356-004 Work Order #...: JTFK61AA Matrix.....: WATER
Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #....: 7102138

(64 - 128)

Prep Date....: 04/12/07 Analysis Date..: 04/12/07

Prep Batch #...: 7102207

Dibromofluoromethane

Dilution Factor: 1 Method.....: SW846 8260B

| PARAMETER             | RESULT   | REPORTING<br>LIMIT | UNITS    |
|-----------------------|----------|--------------------|----------|
| Benzene               | ND       | 1.0                | ug/L     |
| Ethylbenzene          | ND       | 1.0                | ug/L     |
| Toluene               | ND       | 1.0                | ug/L     |
| Xylenes (total)       | ND       | 3.0                | ug/L     |
|                       | PERCENT  | RECOVERY           |          |
| SURROGATE             | RECOVERY | LIMITS             | _        |
| Toluene-d8            | 93       | (71 - 118)         |          |
| 1,2-Dichloroethane-d4 | 114      | (64 - 135)         | <b>+</b> |
| 4-Bromofluorobenzene  | 91       | (70 - 118)         |          |

112

### Client Sample ID: MW17

### GC/MS Semivolatiles

Lot-Sample #...: C7D050356-004 Work Order #...: JTFK61AC Matrix.....: WATER

Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #.....: 7100072

Prep Date....: 04/10/07 Analysis Date..: 04/16/07

Prep Batch #...: 7100126

Dilution Factor: 0.95 Method.....: SW846 8270C

|                        |            | REPORTIN | īG    |
|------------------------|------------|----------|-------|
| PARAMETER              | RESULT     | LIMIT    | UNITS |
| Acenaphthene           | ND         | 9.5      | ug/L  |
| Acenaphthylene         | ND         | 9.5      | ug/L  |
| Anthracene             | ND         | 9.5      | ug/L  |
| Benzo(a)anthracene     | ND         | 9.5      | ug/L  |
| Benzo(b)fluoranthene   | <b>N</b> D | 9.5      | ug/L  |
| Benzo(k)fluoranthene   | ND         | 9.5      | ug/L  |
| Benzo(ghi)perylene     | ND         | 9.5      | ug/L  |
| Benzo(a)pyrene         | ND         | 9.5      | ug/L  |
| Chrysene               | ND         | 9.5      | ug/L  |
| Fluoranthene           | ND         | 9.5      | ug/L  |
| Fluorene               | <b>N</b> D | 9.5      | ug/L  |
| Indeno(1,2,3-cd)pyrene | ND         | 9.5      | ug/L  |
| 2-Methylnaphthalene    | ND         | 9.5      | ug/L  |
| Naphthalene            | ND         | 9.5      | ug/L  |
| Phenanthrene           | ND         | 9.5      | ug/L  |
| Pyrene                 | ND         | 9.5      | ug/L  |
| Dibenzo(a,h)anthracene | ND         | 9.5      | ug/L  |
|                        | PERCENT    | RECOVERY | •     |
| SURROGATE              | RECOVERY   | LIMITS   |       |

|                      | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
| SURROGATE            | RECOVERY | LIMITS     |
| 2,4,6-Tribromophenol | 79       | (19 - 138) |
| 2-Fluorobiphenyl     | 71       | (35 - 115) |
| 2-Fluorophenol       | 71       | (10 - 118) |
| Nitrobenzene-d5      | 75       | (39 - 115) |
| Phenol-d5            | 70       | (18 - 115) |
| Terphenyl-d14        | 46       | (17 - 129) |

### Client Sample ID: MW19

### GC/MS Volatiles

| Lot-Sample #: C7D0503 | 6-008 Work Order # | : JTFLD1AA   | Matrix: WATER     |
|-----------------------|--------------------|--------------|-------------------|
| Date Sampled: 04/03/0 | 7 Date Received    | : 04/05/07   | MS Run #: 7102138 |
| Prep Date: 04/12/0    | 7 Analysis Date    | : 04/12/07   |                   |
| Prep Batch #: 7102207 |                    |              |                   |
| Dilution Factor: 250  | Method             | : SW846 8260 | В                 |
|                       |                    |              |                   |
|                       |                    | REPORTING    |                   |
| PARAMETER             | RESULT             | LIMIT        | UNITS             |
| Benzene               | 6700               | 250          | ug/L              |
| Kthylbenzene          | 220 J              | 250          | ug/L              |
| Toluene               | ND                 | 250          | ug/L              |
| Xvlenes (total)       | 710 J              | 750          | 11 <b>cr/T</b> ,  |

|                       | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
| SURROGATE             | RECOVERY | LIMITS     |
| Toluene-d8            | 97       | (71 - 118) |
| 1,2-Dichloroethane-d4 | 101      | (64 - 135) |
| 4-Bromofluorobenzene  | 96       | (70 - 118) |
| Dibromofluoromethane  | 108      | (64 - 128) |

### NOTE (S):

J Estimated result. Result is less than RL.

### Client Sample ID: MW19

### GC/MS Semivolatiles

| Lot-Sample #: | C7D050356-008 | Work Order #: JTFLD1AC  | Matrix:   | WATER   |
|---------------|---------------|-------------------------|-----------|---------|
| Date Sampled: | 04/03/07      | Date Received: 04/05/07 | MS Run #: | 7100072 |
| Prep Date:    | 04/10/07      | Analysis Date: 04/16/07 |           |         |

Prep Date....: 04/10/07

Prep Batch #...: 7100126

Dilution Factor: 48.5 Method....: SW846 8270C

| •                      |            | DEDORMEN          |       |
|------------------------|------------|-------------------|-------|
| PARAMETER              | RESULT     | REPORTIN<br>LIMIT | UNITS |
| Acenaphthene           | ND         | 480               | ug/L  |
| Acenaphthylene         | ND         | 480               | ug/L  |
| Anthracene             | ND         | 480               | ug/L  |
| Benzo(a) anthracene    | ND         | 480               | ug/L  |
| Benzo(b) fluoranthene  | ND         | 480               | ug/L  |
| Benzo(k) fluoranthene  | ND         | 480               | ug/L  |
| Benzo(ghi)perylene     | ND         | 480               | ug/L  |
| Benzo(a)pyrene         | ND         | 480               | ug/L  |
| Chrysene               | ND         | 480               | ug/L  |
| Fluoranthene           | ND         | 480               | ug/L  |
| Fluorene               | ND         | 480               | ug/L  |
| Indeno(1,2,3-cd)pyrene | ND         | 480               | ug/L  |
| 2-Methylnaphthalene    | ND         | 480               | ug/L  |
| Naphthalene            | 3100       | 480               | ug/L  |
| Phenanthrene           | <b>N</b> D | 480               | ug/L  |
| Pyrene                 | ND         | 480               | ug/Ĺ  |
| Dibenzo(a,h)anthracene | ND         | 480               | ug/L  |
|                        | PERCENT    | RECOVERY          | •     |
| SURROGATE              | RECOVERY   | LIMITS            |       |
| 2,4,6-Tribromophenol   | NC, DIL    | (19 - 13          | 8)    |
| 2-Fluorobiphenyl       | NC, DIL    | (35 - 11          | .5)   |
| 2-Fluorophenol         | NC, DIL    | (10 - 11          | .8)   |
| Nitrobenzene-d5        | NC, DIL    | (39 - 11          | .5)   |
| Phenol-d5              | NC, DIL    | (18 - 11          | .5)   |
| Terphenyl-d14          | NC, DIL    | (17 - 12          | (9)   |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

### Client Sample ID: SW01

### GC/MS Volatiles

Lot-Sample #...: C7D050356-007 Work Order #...: JTFLC1AA Matrix.....: WATER

Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #....: 7102138

(64 - 135)

(70 - 118)

(64 - 128)

Prep Date....: 04/12/07 Analysis Date..: 04/12/07

**Prep Batch #...:** 7102207

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Dibromofluoromethane

Dilution Factor: 1 Method.....: SW846 8260B

|                 |          | REPORTIN | IG    |
|-----------------|----------|----------|-------|
| PARAMETER       | RESULT   | LIMIT    | UNITS |
| Benzene         | ND       | 1.0      | ug/L  |
| Ethylbenzene    | ND       | 1.0      | ug/L  |
| Toluene         | ND       | 1.0      | ug/L  |
| Xylenes (total) | ND       | 3.0      | ug/L  |
|                 | PERCENT  | RECOVERY |       |
| SURROGATE       | RECOVERY | LIMITS   |       |
| Toluene-d8      | 96       | (71 - 11 | .8)   |

114

87

118

### Client Sample ID: SW01

### GC/MS Semivolatiles

Lot-Sample #...: C7D050356-007 Work Order #...: JTFLC1AC Matrix.....: WATER

Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #.....: 7100072

Prep Date....: 04/10/07 Analysis Date..: 04/16/07

Prep Batch #...: 7100126

Dilution Factor: 1.1 Method.....: SW846 8270C

|                        |          | REPORTIN | G ·   |
|------------------------|----------|----------|-------|
| PARAMETER              | RESULT   | LIMIT    | UNITS |
| Acenaphthene           | ND       | 11       | ug/L  |
| Acenaphthylene         | ND       | 11       | ug/L  |
| Anthracene             | ND       | 11       | ug/L  |
| Benzo(a)anthracene     | ND       | 11       | ug/L  |
| Benzo(b) fluoranthene  | ND       | 11       | ug/L  |
| Benzo(k)fluoranthene   | ND       | 11       | ug/L  |
| Benzo(ghi)perylene     | ND       | 11       | ug/L  |
| Benzo(a)pyrene         | ND       | 11       | ug/L  |
| Chrysene               | ND       | 11       | ug/L  |
| Fluoranthene           | ND       | 11       | ug/L  |
| Fluorene               | ND       | 11       | ug/L  |
| Indeno(1,2,3-cd)pyrene | ND       | 11       | ug/L  |
| 2-Methylnaphthalene    | ND       | 11       | ug/L  |
| Naphthalene            | ND       | 11       | ug/L  |
| Phenanthrene           | ND       | 11       | ug/L  |
| Pyrene                 | ND       | 11       | ug/L  |
| Dibenzo(a,h)anthracene | ND       | 11       | ug/L  |
|                        | PERCENT  | RECOVERY |       |
| SURROGATE              | RECOVERY | LIMITS   |       |

|                      | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
| SURROGATE            | RECOVERY | LIMITS     |
| 2,4,6-Tribromophenol | 68       | (19 - 138) |
| 2-Fluorobiphenyl     | 64       | (35 - 115) |
| 2-Fluorophenol       | 64       | (10 - 118) |
| Nitrobenzene-d5      | 67       | (39 - 115) |
| Phenol-d5            | 62       | (18 - 115) |
| Terphenyl-d14        | 67       | (17 - 129) |

### Client Sample ID: SW02

### GC/MS Volatiles

Lot-Sample #...: C7D050356-006 Work Order #...: JTFLA1AA Matrix....: WATER Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #..... 7102138 Analysis Date..: 04/12/07

(64 - 128)

Prep Date....: 04/12/07 Prep Batch #...: 7102207

Dibromofluoromethane

Dilution Factor: 1 Method..... SW846 8260B

| PARAMETER             | RESULT   | REPORTIN<br>LIMIT |       |
|-----------------------|----------|-------------------|-------|
|                       |          |                   | UNITS |
| Benzene               | ND       | 1.0               | ug/L  |
| Ethylbenzene          | ND       | 1.0               | ug/L  |
| Toluene               | ND       | 1.0               | ug/L  |
| Xylenes (total)       | ND       | 3.0               | ug/L  |
|                       | PERCENT  | RECOVERY          |       |
| SURROGATE             | RECOVERY | LIMITS            |       |
| Toluene-d8            | 96       | (71 - 118)        |       |
| 1,2-Dichloroethane-d4 | 110      | (64 - 135)        |       |
| 4-Bromofluorobenzene  | 93       | (70 - 11          | .8)   |

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### Client Sample ID: SW02

### GC/MS Semivolatiles

Matrix....: WATER Lot-Sample #...: C7D050356-006 Work Order #...: JTFLA1AC Date Sampled...: 04/03/07 Date Received..: 04/05/07 MS Run #..... 7100072 Analysis Date..: 04/16/07

Prep Date....: 04/10/07

Prep Batch #...: 7100126 Dilution Factor: 1.12

Method....: SW846 8270C

|                          |          | REPORTIN | 1G    |
|--------------------------|----------|----------|-------|
| PARAMETER                | RESULT   | LIMIT    | UNITS |
| Acenaphthene             | ND       | 11       | ug/L  |
| Acenaphthylene           | ND       | 11       | ug/L  |
| Anthracene               | ND       | 11       | ug/L  |
| Benzo(a)anthracene       | ND       | 11       | ug/L  |
| Benzo(b)fluoranthene     | ND       | 11       | ug/L  |
| Benzo(k) fluoranthene    | ND       | 11       | ug/L  |
| Benzo(ghi)perylene       | ND       | 11       | ug/L  |
| Benzo(a) pyrene          | ND       | 11       | ug/L  |
| Chrysene                 | ND       | 11       | ug/L  |
| Fluoranthene             | ND       | 11       | ug/L  |
| Fluorene                 | ND       | 11       | ug/L  |
| Indeno(1,2,3-cd)pyrene   | ND       | 11       | ug/L  |
| 2-Methylnaphthalene      | ND       | 11       | ug/L  |
| Naphthalene              | ND       | 11       | ug/L  |
| Phenanthrene             | ND       | 11       | ug/L  |
| Pyr <b>e</b> ne          | ND       | 11       | ug/L  |
| Dibenzo(a, h) anthracene | ND       | 11       | ug/L  |
|                          | PERCENT  | RECOVERY | ?     |
| מידע באמע מידע           | PECOVERY | T.TMTTS  |       |

|                      | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
| SURROGATE            | RECOVERY | LIMITS     |
| 2,4,6-Tribromophenol | 66       | (19 - 138) |
| 2-Fluorobiphenyl     | 60       | (35 - 115) |
| 2-Fluorophenol       | 61       | (10 - 118) |
| Nitrobenzene-d5      | 63       | (39 - 115) |
| Phenol-d5            | 59       | (18 - 115) |
| Terphenvl-dl4        | 40       | (17 - 129) |

### Client Sample ID: MW70

### GC/MS Volatiles

| Lot-Sample #: C7 | D050356-003 Work O   | rder #: J'   | TFK51AA | Matrix:  | WATER   |
|------------------|----------------------|--------------|---------|----------|---------|
| Date Sampled: 04 | /03/07 <b>Date R</b> | Received: 04 | 4/05/07 | MS Run # | 7102138 |
| Prep Date: 04,   | /12/07 <b>Analys</b> | is Date: 04  | 4/12/07 |          |         |

(70 - 118)

(64 - 128)

Prep Date....: 04/12/07 Prep Batch #...: 7102207

4-Bromofluorobenzene

Dibromofluoromethane

Dilution Factor: 125 Method.....: SW846 8260B

| PARAMETER  Benzene  Ethylbenzene  Toluene  Xylenes (total) | RESULT<br>2000<br>2700<br>730<br>1600 | REPORTING  LIMIT UNITS  120 ug/L  120 ug/L  120 ug/L  120 ug/L  120 ug/L |
|--|---------------------------------------|--|
|  | PERCENT                               | RECOVERY   |
| SURROGATE  | RECOVERY                              | LIMITS   |
| Toluene-d8   | 98                                    | (71 - 118)   |
| 1,2-Dichloroethane-d4                                      | 106                                   | (64 - 135)   |

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### Client Sample ID: MW70

### GC/MS Semivolatiles

 Lot-Sample #...: C7D050356-003
 Work Order #...: JTFK51AC
 Matrix.....: WATER

 Date Sampled...: 04/03/07
 Date Received..: 04/05/07
 MS Run #....: 7100072

 Prep Date....: 04/10/07
 Analysis Date..: 04/16/07

Prep Date....: 04/10/07 Prep Batch #...: 7100126

Dilution Factor: 48 Method....: SW846 8270C

|                          |            | REPORTIN | rG     |
|--------------------------|------------|----------|--------|
| PARAMETER                | RESULT     | LIMIT    | UNITS  |
| Acenaphthene             | ND         | 480      | ug/L   |
| Acenaphthylene           | ND         | 480      | ug/L   |
| Anthracene               | ND         | 480      | ug/L   |
| Benzo(a) anthracene      | ND         | 480      | ug/L   |
| Benzo(b) fluoranthene    | ND         | 480      | ug/L   |
| Benzo(k) fluoranthene    | ND         | 480      | ug/L   |
| Benzo(ghi) perylene      | ND         | 480      | ug/L   |
| Benzo(a)pyrene           | ND         | 480      | ug/L   |
| Chrysene                 | ND         | 480      | ug/L   |
| Fluoranthene             | ND         | 480      | ug/L   |
| Fluorene                 | ND         | 480      | ug/L   |
| Indeno(1,2,3-cd)pyrene   | <b>N</b> D | 480      | ug/L   |
| 2-Methylnaphthalene      | 210 J      | 480      | ug/L   |
| Naphthalene              | 3100       | 480      | ug/L   |
| Phenanthrene             | ND         | 480      | ug/L   |
| Pyrene                   | ND         | 480      | · ug/L |
| Dibenzo(a, h) anthracene | ND         | 480      | ug/L   |

|                      | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
| SURROGATE            | RECOVERY | LIMITS     |
| 2,4,6-Tribromophenol | NC, DIL  | (19 - 138) |
| 2-Fluorobiphenyl     | NC, DIL  | (35 - 115) |
| 2-Fluorophenol       | NC, DIL  | (10 - 118) |
| Nitrobenzene-d5      | NC, DIL  | (39 - 115) |
| Phenol-d5            | NC, DIL  | (18 - 115) |
| Terphenyl-d14        | NC, DIL  | (17 - 129) |

### NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

### Client Sample ID: EB(040407)

### GC/MS Volatiles

Lot-Sample #...: C7D050356-009 Work Order #...: JTFLF1AA Matrix....: WATER

Date Sampled...: 04/04/07 Date Received..: 04/05/07 MS Run #....: 7102138

Prep Date....: 04/12/07 Analysis Date..: 04/12/07

Prep Batch #...: 7102207

Dilution Factor: 1 Method.....: SW846 8260B

| PARAMETER       | RESULT   | REPORTIN<br>LIMIT | G<br>UNITS |
|-----------------|----------|-------------------|------------|
| Benzene         | ND       | 1.0               | ug/L       |
| Ethylbenzene    | ND       | 1.0               | ug/L       |
| Toluene         | ND       | 1.0               | ug/L       |
| Xylenes (total) | ND       | 3.0               | ug/L       |
|                 | PERCENT  | RECOVERY          |            |
| SURROGATE       | RECOVERY | LIMITS            |            |

### Client Sample ID: EB(040407)

### GC/MS Semivolatiles

Matrix....: WATER Lot-Sample #...: C7D050356-009 Work Order #...: JTFLF1AC Date Sampled...: 04/04/07 Date Received..: 04/05/07 MS Run #..... 7100072 Analysis Date..: 04/16/07

Prep Date....: 04/10/07

Prep Batch #...: 7100126 Dilution Factor: 0.96

Method.....: SW846 8270C

|                        |         | REPORTIN | IG .  |
|------------------------|---------|----------|-------|
| PARAMETER              | RESULT  | LIMIT    | UNITS |
| Acenaphthene           | ND      | 9.6      | ug/L  |
| Acenaphthylene         | ND      | 9.6      | ug/L  |
| Anthracene             | ND      | 9.6      | ug/L  |
| Benzo(a) anthracene    | ND      | 9.6      | ug/L  |
| Benzo(b) fluoranthene  | ND      | 9.6      | ug/L  |
| Benzo(k)fluoranthene   | ND      | 9.6      | ug/L  |
| Benzo(ghi)perylene     | ND      | 9.6      | ug/L  |
| Benzo(a)pyrene         | ND      | 9.6      | ug/L  |
| Chrysene               | ND      | 9.6      | ug/L  |
| Fluoranthene           | ND      | 9.6      | ug/L  |
| Fluorene               | ND      | 9.6      | ug/L  |
| Indeno(1,2,3-cd)pyrene | ND      | 9.6      | ug/L  |
| 2-Methylnaphthalene    | ND      | 9.6      | ug/L  |
| Naphthalene            | ND      | 9.6      | ug/L  |
| Phenanthrene           | ND      | 9.6      | ug/L  |
| Pyrene                 | ND      | 9.6      | ug/L  |
| Dibenzo(a,h)anthracene | ND      | 9.6      | ug/L  |
|                        | PERCENT | RECOVERY |       |

|                      | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
| SURROGATE            | RECOVERY | LIMITS     |
| 2,4,6-Tribromophenol | 73       | (19 - 138) |
| 2-Fluorobiphenyl     | 70       | (35 - 115) |
| 2-Fluorophenol       | 71       | (10 - 118) |
| Nitrobenzene-d5      | 73       | (39 - 115) |
| Phenol-d5            | 70       | (18 - 115) |
| Terohenvl-d14        | 89       | (17 - 129) |

### Client Sample ID: TB(040407)

### GC/MS Volatiles

Lot-Sample #...: C7D050356-010 Work Order #...: JTFLH1AA Matrix.... WATER Date Received..: 04/05/07 Date Sampled...: 04/04/07 MS Run #..... 7102138 Analysis Date..: 04/12/07

Prep Date....: 04/12/07

Prep Batch #...: 7102207

| Dilution Factor: 1    | Method: SW846 8260B |          |       |
|-----------------------|---------------------|----------|-------|
|                       |                     | REPORTIN | IG    |
| PARAMETER             | RESULT              | LIMIT    | UNITS |
| Benzene               | ND                  | 1.0      | ug/L  |
| Ethylbenzene          | ND                  | 1.0      | ug/L  |
| Toluene               | ND                  | 1.0      | ug/L  |
| Xylenes (total)       | ND                  | 3.0      | ug/L  |
|                       | PERCENT             | RECOVERY | •     |
| SURROGATE             | RECOVERY            | LIMITS   |       |
| Toluene-d8            | 92                  | (71 - 11 | .8)   |
| 1,2-Dichloroethane-d4 | 116                 | (64 - 13 | 5)    |
| 4-Bromofluorobenzene  | 93                  | (70 - 11 | .8)   |
| Dibromofluoromethane  | 116                 | (64 - 12 | 8)    |