2011 PERIODIC REVIEW REPORT
DELPHI HARRISON THERMAL SYSTEMS SITE
SITE NUMBER 932113
LOCKPORT NEW YORK

PREPARED FOR:
New York State Department of Environmental Conservation
Division of Environmental Remediation
Mr. Glenn May

PREPARED BY:
GZA GeoEnvironmental of New York
Buffalo, New York

January 2012
21.0056645.00

January 6, 2012
File No. 21.0056546.0

Mr. Glenn May
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203

Re: Periodic Review Report Number 1 – December 2011
Delphi Harrison Thermal Systems Site
Lockport, New York
Registry Site No. 932113

Dear Mr. May:

GZA GeoEnvironmental of New York (GZA) prepared this 2011Periodic Review Report (PRR) for the Delphi Harrison Thermal Systems Site (Site) as required by the Site Management Plan[1] (SMP) that was approved by New York State Department of Environmental Conservation (NYSDEC) on October 13, 2011. The implementation of the SMP is a requirement of the Remedial Program Order on Consent and Administrative Settlement (Index #B9-0553-99-06) between GM Components Holdings, LLC (GMCH) and the New York State Department of Environmental Conservation (NYSDEC) dated November 8, 2011.

GMCH is the current owner and operator of an automotive components manufacturing facility at 200 Upper Mountain Road, Lockport, New York. Delphi Automotive Systems LLC conveyed the facility to GMCH by deed dated October 6, 2009 and recorded in the Niagara County Clerk's Office on October 14, 2009. The Site as defined by the environmental easement (Instrument # 2011-17072) recorded in the Niagara County Clerk–'s Office in October 2011 comprises approximately 22.7 acres located in the eastern portion of the facility as shown on Figure 1.

BACKGROUND

The following is a summary of the regulatory actions at the Site.

- Building 8, located in the northern central portion of the facility, formerly housed degreasing operations that utilized trichloroethylene (TCE). An aboveground storage tank (AST) was formerly located outside the southeastern corner of Building 8 until it was decommissioned in May 1994. NYSDEC became involved in 1994 when Delphi Thermal Systems (Delphi) notified them of TCE detected in soil during an excavation to repair fire protection lines in the vicinity

[1] "Delphi Harrison Thermal Systems Site, Niagara County, New York, Site Management Plan, NYSDEC Site Number: 9-32-113" dated October 13, 2011

of the former TCE AST. NYSDEC assigned the incident Spill Number 9410972. Delphi removed the TCE-impacted soil from the excavation down to the top of bedrock and provided NYSDEC with a report of this removal action in a letter dated December 22, 1994.

- In March 1999, the Site was added to the NYSDEC Inactive Hazardous Waste Registry, Site Number 932113, and it currently has a Class 3 listing (does not present a significant threat to the public health or the environment – action may be deferred).

- Delphi entered into a Remedial Investigation/Feasibility Study Order on Consent, Index #B9-0553-99-06 (RI/FS Order) in 2001 to determine the extent of TCE contamination and complete a Focused Feasibility Study.

- In March 2005, NYSDEC, in consultation with the New York State Department of Health (NYSDOH), issued a ROD based on the results of the FRI and FFS. The components of the selected remedy as defined in the ROD are as follows.

    - Monitored natural attenuation (MNA) with groundwater monitoring and sampling to ensure the continued effectiveness of the remedy.

    - Development of a contingency plan for groundwater control/treatment if natural attenuation processes can no longer be demonstrated as effective or if significant off-site groundwater contamination is observed.

    - Development of a site management plan to: (a) address residual contaminated soils that may be excavated from the site during future redevelopment, (b) evaluate the potential for vapor intrusion for all current site buildings and any developed on the site in the future, including provision for mitigation of any impacts identified; (c) provide for the operation and maintenance of the components of the remedy; (d) monitor site groundwater; and (e) identify any use restrictions on site development or groundwater use.

    - Imposition of an environmental easement to restrict groundwater use and ensure compliance with the approved site management plan.

    - Certification of the institutional and engineering controls.

- Annual MNA groundwater sampling has been completed voluntarily at the Site since October 2006.

- In October 2011, an environmental easement (Instrument # 2011-17072) for the Site was recorded in the Niagara County Clerk's Office.

- In November 2011, a Remedial Program Order on Consent and Administrative Settlement (Index #B9-0553-99-06) was executed between GMCH and NYSDEC.

- No other pertinent records were generated for the Site during the reporting period.

2011 PERIODIC REVIEW REPORTING PERIOD

In accordance with Section 5.3 of the SMP, the following constitutes the Calendar Year 2011 PRR.

1. Results of the required Site inspections and severe weather condition inspections, if applicable

A Site inspection was completed on November 28, 2011 by Christopher Boron of GZA. The site inspection form was completed and a copy is included as Appendix A.

No severe weather condition inspections occurred during the reporting period.

2. All applicable inspection forms and other records generated for the Site during the reporting period in electronic format

A copy of the completed site inspection form from the November 28, 2011 site inspection is included in Appendix A and it will be included as part of the electronic format of the PRR that is to be submitted to NYSDEC's Glenn May and Brian Sadowski (see SMP at page 40).

3. A summary of any monitoring data and/or information generated during the Reporting Period with comments and conclusions

(a) Annual MNA groundwater sampling has been completed voluntarily at the Site since October 2006. The most recent MNA groundwater sampling was completed in April 2011. A copy of the report is included with this PRR as Appendix B.

The conclusions of the April 2011 report were as follows:

Based on the results of the April 2011 sampling round, natural attenuation of compounds of concern (COCs) is occurring. There is a decreasing temporal trend in total organic carbon (TOC) concentrations, but the indicator parameters provide adequate to strong evidence that anaerobic biodegradation of the COCs is effectively controlling migration of impacted groundwater downgradient from the identified source area near

MW-7. The decreasing TOC concentration trend across the Site indicates that the "fuel" that drives reductive dechlorination is becoming depleted.

GZA recommends continuing the annual groundwater sampling event utilizing eight (8) monitoring wells (MW-4, -7, -10, -11, -12, -13, -14 and -15), as stated in the SMP, in the Spring of 2012. In addition to the analytes routinely monitored, GZA recommends expanding the analyte list to include the following to provide clarity on the current status of residual TOC in the formation:

- Carbon dioxide;
- Alkalinity;
- Hydrogen;
- Volatile Fatty Acids; and
- Ethene/Ethane

The next MNA groundwater sampling event is scheduled for April 2012.

(b) On May 19 and 20, 2011, a soil probe investigation was completed by SJB Service for ATSI Engineering Services, a subcontractor to Delphi Automotive, to assess the depth of bedrock at 36 locations within and north of the Site. Delphi Automotive is planning to purchase Building 6 from GMCH and as part of this initiative, is assessing the possibility of separating this building from the existing GMCH Facility storm and sanitary sewer system.

A copy of the SJB Services bedrock exploration report is included in Appendix C. Also included in Appendix C is a copy of the excavation permit issued by GMCH Engineering for the exploration probes.

4. Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends.

Data summary tables are provided in the copy of the MNA groundwater sampling report attached in Appendix B. The copy of the SJB bedrock exploration report attached as Appendix C includes a table of the refusal depths.

5. Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format.

The electronic submission of the PRR shall include the results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period for the MNA groundwater sampling event of April 2011.

[**Note:** The SJB bedrock exploration report was not performed by GMCH. The work was not a part of any required sampling to be performed by GMCH under the SMP.]

6. A Site evaluation, which includes the following:

- **Compliance with the requirements of the ROD Site-selected remedy;**
- **Any new conclusions or observations regarding site contamination based on inspections or data generated by the Site Monitoring Plan for the media being monitored;**
- **Recommendations regarding any necessary changes to the remedy and/or Site Monitoring Plan; and**
- **The overall performance and effectiveness of the remedy.**

As discussed in 3(a) above, there appears to be a decreasing temporal trend in TOC concentrations, but the indicator parameters provide adequate to strong evidence that anaerobic biodegradation of the COCs is effectively controlling migration of impacted groundwater downgradient. However, it has been recommended that the analyte list in the SMP be expanded to include carbon dioxide, alkalinity, hydrogen, volatile fatty acids and ethene/ethane.

At this time, there are no recommendations to change the Site remedy or the Site Monitoring Plan. The Site is in compliance with the ROD and MNA is still an effective remedy.

7. Identification, assessment and certification of all ECs/ICs [Engineering Controls/Institutional Controls[2]] required by the Record of Decision Site-selected remedy

There are no Engineering Controls (ECs) required under the ROD and the Institutional Controls (ICs) that apply to the Site are set forth in the recorded Environmental Easement. The ICs for the Site restrict the use of groundwater and require compliance with the SMP. There have been no changes to the SMP since

[2] See definition for *Engineering Control* at 6 NYCRR § 375-1.2 (o) and for *Institutional Control* at 6 NYCRR § 375-1.2 (aa).

it was approved by NYSDEC on October 13, 2011.

Certification of the Institutional and Engineering Controls[3]

For each institutional or engineering control identified for the Site, I certify[4] that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering controls employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this control;
- Access to the Site will continue to be provided to the Department (with valid Safety Protocol Program Card) to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document[5];
- Use of the Site is compliant with the Environmental Easement;
- Any engineering control systems that have been installed as part of the remedial programs for the Site are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the ROD Site selected remedy and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

[3] The required Certification of the Institutional and Engineering Controls is set forth in Section 5.2 of the NYSDEC-approved SMP. It is to be used for the Periodic Review Report in lieu of the certifications noted in DER-10 at section 6.3 (d).

[4] Certify is defined as a statement or declaration of a professional opinion based on the information, data and/or facts known at the time such certification is made.

[5] Note that no financial assurance mechanism is in place for the Site remedial program.

- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Bart A. Klettke, P.E. of GZA GeoEnvironmental of New York, am certifying as Owner's Designated Site Representative for the Site.

Bart A. Klettke, P.E.
Associate Principal
GZA GeoEnvironmental of New York

Date: January 6, 2012

Figure 1: Site Plan
Appendix A: Site Inspection Form
Appendix B: April 2011 MNA Groundwater Sampling Report
Appendix C: SJB Summary Report for Bedrock Explorations dated June 1, 2011
GMCH Facility Excavation Permit for Bedrock Explorations

cc: Brian Sadowski (electronic only)

FIGURE

DRAWN BY: DEW

DATE: DECEMBER 2011

GZA GeoEnvironmental of New York

NOTE:

BASE MAP ADAPTED FROM U.S.G.S. TOPOGRAPHIC MAPS DOWNLOADED FROM TERRASERVER.MICROSOFT.COM

GM COMPONENTS HOLDINGS, LLC

PERIODIC REVIEW REPORT

DELPHI HARRISON THERMAL SYSTEMS SITE

200 UPPER MOUNTAIN ROAD

LOCKPORT, NEW YORK

SITE NUMBER 9-32-113

SITE PLAN

PROJECT No.

21.0056546.00

FIGURE No.

1

GZA–T:\PROJECTS\56500s\56546 GM Component LLC\Periodic Review Report\Figure 1 Site Plan.dwg [FIGURE 1] December 13, 2011 – 1:17pm daniel.wulf

APPENDIX A

SITE DETAILS

Site No.:	9-32-113
Site Name:	Delphi Harrison Thermal Systems Site
Site Address:	200 Upper Mountain Road, Lockport NY

PERSON PERFORMING INSPECTION

NAME: Chris Baron
EMAIL: christopher.baron@gza.com
OTHERS PRESENT: None
PHONE NUMBER: 716-849-7046
COMPANY: GZA GeoEnvironmental

INSPECTION DATE AND SITE CONDITIONS

INSPECTION DATE: 11/28/2011
INSPECTION TIME: 1300-1400
WEATHER CONDITIONS: Overcast 50°F

REASON FOR SITE INSPECTION

Scheduled Annual Inspection: (YES) NO

Inspection after a Severe Condition that could effect site controls: YES (NO)

describe severe conditions triggering inspection:

VERIFICATION OF SITE DETAILS

Current Site Owner: GM Components Holdings, LLC (GMCH)

Current Site Operators: GMCH

Describe Current Site Use (check all that apply):

(Industrial) Commercial Residential Other

briefly describe observed site uses: Greenspace, parking lot and material storage

Has some or all of the Site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last inspection? YES (NO)

If YES, is documentation or evidence of documentation submittal to NYSDEC attached? YES

Have any federal, state and/or local permits (e.g., building or discharge) been issued for the property since the initial/last inspection? YES (NO)

If YES, is documentation or evidence of documentation submittal to NYSDEC attached? YES

Has a change in Site usage per NYCRR 375-1.11(d) occurred since the last inspection? YES (NO)

If YES, is documentation or evidence of documentation submittal to NYSDEC attached? YES

Has any new information come to your attention to indicate that assumptions made in the qualitative exposure assessment for off-site contamination are no longer valid? YES (NO)

If YES, is this information or evidence of submittal to NYSDEC attached? YES

Note any additional pertinent information to Verification of Site Details (use additional pages if necessary):

DESCRIPTION OF INSTITUTIONAL/ENGINEERING CONTROLS

Is Environmental Easement still in place? (YES) NO

If no, explain:

Is the Site Management Plan in place? (YES) NO

If no, explain:

AREAS IN NEED OF REPAIR OR MAINTENANCE

Area discussed in this section must be shown on a figure and have photographic documentation.

No areas in need of repair were observed.

INTRUSIVE ACTIVITIES PERFORMED AT SITE DURING INSPECTION PERIOD	DATE	LOCATION
Soil probes to assess the depth of bedrock were completed by Delphi Automotive. See Appendix B	May 2011	Various locations w/in the Site

REVIEW OF SITE RECORDS

Are site records being properly generated and maintained? (YES) NO

Provide summary of recordkeeping review and adequacy:

GMCH Environmental Manager (Ray Knapp) maintains both hardcopies and electronic copies of the site records. Hardcopies are kept in a file cabinet w/ in the engineering office. Electronic copies are kept in the GMCH Corrective Action and Remediation Project Record file (Record # ENV 010)

ADDITIONAL NOTES & COMMENTS

INSPECTION CERTIFICATION

I hereby certify that the information included in this report is complete and accurate to the best of my knowledge.

Inspector Signature: Christopher Boron Date: 11/28/2011

APPENDIX B

General Motors LLC

General Motors LLC
Real Estate & Facilities
Remediation Team
One General Motors Drive
Syracuse, NY 13206

November 28, 2011

Glenn May
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave.
Buffalo, NY 14203-2999

Re: Delphi Harrison Thermal Systems Site #932113
Revised Report - Results of April 2011 Natural Attenuation Groundwater Sampling

Dear Mr. May,

Enclosed for your approval is a revised letter report summarizing the results of the monitoring natural attenuation groundwater sampling performed at the above referenced Site in April 2011. The revised report addresses the comments we received from the Department in your letter dated November 7, 2011.

We look forward to the Department's approval of the enclosed revised report.

Sincerely,

James F. Hartnett

Enclosure: GZA Letter Report April 2011 GW Sampling

Cc: Matt Forcucci – NYSDOH (electronic copy)
Maura Desmond – NYSDEC (electronic copy)
Roy Knapp – GMCH Lockport (electronic copy)
James Walle Esq. - GM Legal Staff (electronic copy)

GZA GeoEnvironmental

Engineers and Scientists

November 28, 2011
File No. 21.0056546.0

Mr. James Hartnett
General Motors LLC
1 General Motors Drive
Syracuse, NY 13206-1127

Re: Results of April 2011 Natural Attenuation Groundwater Sampling
Delphi Harrison Thermal Systems Site (Site)
Lockport, New York
Registry Site No. 932113

Dear Mr. Hartnett:

535 Washington Street
11th Floor
Buffalo, New York
14203
716-685-2300
FAX 716-685-3629
www.gza.com

GZA GeoEnvironmental of New York (GZA) prepared this letter report to summarize the results of the April 2011 comprehensive groundwater sampling and natural attenuation parameter monitoring event at the above-referenced Site. The groundwater sampling event conducted from April 19th through April 22nd, 2011 included ten (10) monitoring wells (MW-4, -7, -8, -9, -10, -11, -12, -13, -14 and -15) that were sampled for the compounds of concern (COCs)[1] and monitored natural attenuation (MNA) parameters as identified in the Site Management Plan[2] (SMP). This sampling event was conducted as requested by New York State Department of Environmental Conservation (NYSDEC) in their September 27, 2010 letter.

BACKGROUND

In March 2005, NYSDEC issued a Record of Decision (ROD) for the Site, which selected MNA as the remedial alternative for the Site. Annual MNA groundwater sampling has been completed voluntarily since October 2006.

Six (6) monitoring wells (MW-7, MW-11, MW-12, MW-13, MW-14 and MW-15) were monitored in October 2006, November 2007 and November 2008 (see Figure 1 for locations). MW-7 is located in the vicinity of the Area of Concern (AOC) and the other five wells, MW-11 through MW-15, are the downgradient monitoring locations.

Based on the results of the groundwater sampling program through March 2009, the sampling program was expanded to include ten (10) monitoring well locations: MW-4, -7, -8, -9, -10, -11, -12, -13, -14 and -15. This expanded sampling event was completed in July 2009 and indicated that the site conditions continue to be favorable for natural attenuation of the COCs. The data did not indicate a significant change in groundwater

[1] These five COCs are trichloroethylene, tetrachloroethylene, *cis*-1,2-dichloroethene, *trans*-1,2-dichloroethylene, and vinyl chloride.
[2] DRAFT "Delphi Harrison Thermal Systems Site, Niagara County, New York, Site Management Plan, NYSDEC Site Number 9-32-113" dated April 28, 2011. Prepared for the GM Components Holdings, LLC, prepared by GZA GeoEnvironmental of New York.

conditions and it was recommended to continue the annual MNA sampling using these ten (10) monitoring well locations.

The next groundwater sampling event was completed in April 2010 to address the NYSDEC comment letter dated January 19, 2010. The April 2010 results indicated that natural attenuation is occurring even though there was limited evidence of a decreasing temporal trend in total organic carbon (TOC) concentrations near the source area (MW-7) and midpoint of the groundwater plume. However, there was adequate to strong evidence for anaerobic biodegradation of COCs at the leading edge of the groundwater plume. Given these conditions coupled with the lack of evidence of an expanding plume, it appears natural attenuation processes are effectively managing the COC plume migration under current conditions.

APRIL 2011 GROUNDWATER MONITORING & SAMPLING

The April 2011 groundwater monitoring and sampling event was conducted in accordance with the SMP and included ten (10) monitoring wells (MW-4, -7 through -15, see Figure 1) from April 19th through 22nd, 2011.

METHODOLOGY

The groundwater monitoring and sampling was performed using low flow sampling techniques with a peristaltic pump, disposable polyethylene tubing and a water quality meter with a flow-through cell to collect water quality field parameters. The sampling technique and analytical parameters were consistent with the SMP.

The following is the list of the analytical parameters for this sampling event:

Field Measured Parameters: temperature, specific conductance, pH, turbidity, dissolved oxygen (DO) and oxidation reduction potential (ORP).

Compounds of Concerns: tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-DCE), trans-1,2-dichloroethylene (trans-DCE) and vinyl chloride (VC).

Natural Attenuation Parameters: methane, iron, magnesium, manganese, potassium, sodium, alkalinity, total organic carbon, chloride, nitrate, nitrite, sulfate and sulfide.

Groundwater pumping rates used during the monitoring/sampling varied at the monitoring locations in order to establish a relatively stable water level during the pumping/monitoring. Once a stable water level was established within the monitoring well, the flow rates were maintained during the monitoring/sampling period. Samples

were collected for analysis after the field measured water quality parameters stabilized, and a minimum of one (1) well volume was purged. The Monitoring Well Observations & Groundwater Sampling Logs are included in Appendix A.

It should be noted that the ORP readings for the ten (10) monitoring wells were generally the same value (-330 mV) which is not consistent when compared to the previous sampling events. It is GZA's opinion that the ORP sensor may not have been functioning properly and the data was not used as part of the evaluation.

ANALYTICAL RESULTS & DISCUSSION

Analytical results for the COCs for the current sampling event along with the data from previous sample rounds are shown on Figure 1. A contour map of the Total COC concentrations is presented on Figure 2 and a groundwater elevation contour map of the groundwater elevation data collected is shown on Figure 3. It should be noted that the concentrations of cis-DCE and trans-DCE have been combined for presentation purposes as total 1,2-DCE in Figure 1. The analytical results for the COCs (current and historic) shown on Figure 1 have been graphically depicted and are included in Appendix B.

Analytical results for the MNA parameters are shown on Table 1 along with the data from previous sample rounds. The TestAmerica Laboratories, Inc. laboratory report is provided in Appendix C.

Compounds of Concern

Source Area Monitoring Well

MW-7: It appears that there was a consistent downward trend of TCE concentrations at MW-7 occurring from 1996 to 2003. After 2003, there appears to be an increase in the TCE concentrations, with the exception of one anomalous TCE concentration (1.1 ppm) in the November 2008 sampling. This increase in TCE concentrations may be attributed to the decrease in the TOC concentrations discussed later in the report, General.

The concentrations of the PCE, 1,2-DCE and VC appear to generally be consistent since the start of the sampling in 1996, with some minor fluctuation.

Mid Plume Monitoring Wells

MW-4: The concentrations of the TCE, PCE, and VC appear to generally be consistent since the start of the sampling in 1996, with some minor fluctuations.

It appears that there is a consistent downward trend of the 1,2-DCE concentrations at MW-4 since the start of the sampling in 1996.

MW-8: It appears that there is a consistent downward trend of the TCE, PCE and 1,2-DCE concentrations at MW-8 since 1996, with some minor fluctuations. VC concentrations are currently higher than those since sampling was initiated in 1996, and appear to be of a similar order of magnitude since 1999. The consistent VC concentrations may be due to the decrease in the other COCs concentrations at this location.

MW-9: The concentrations of the PCE and VC appear to generally be consistent since the start of the sampling in 1996, with some minor fluctuations and there has been a slight increase in the concentrations of TCE from 1999 until 2009.

It appears that there is a slight downward trend in the 1,2-DCE concentrations at MW-9 since the start of the sampling in 1996.

MW-10: It appears that there is a downward trend of the TCE and 1,2-DCE concentrations at MW-10 since 1996, with some minor fluctuations. The VC and PCE concentrations generally appear to be in a downward trend since 1999, with some fluctuation.

Downgradient Monitoring Wells

MW-11: The detected concentrations of PCE and TCE have been below method detection limits since the start of MW-11 sampling in 1997.

The concentrations of 1,2-DCE have fluctuated from below method detection limits (multiple sample rounds) to 0.013 ppm (December 1998) with the majority of the detected concentrations (11 of 13 samples rounds) being below the NYSDEC Class GA criteria (0.005 ppm).

The concentrations of VC have fluctuated from below method detection limits (multiple sample rounds) to 0.008 ppm (August 2001) with just over half of the detected concentrations (7 of 13 samples rounds) being slightly above the NYSDEC Class GA criteria (0.002 ppm).

MW-12: The detected concentrations of PCE and TCE have been below method detection limits or below their respective Class GA criteria (0.005 ppm) since the start of MW-12 sampling in 1997.

The concentrations of 1,2-DCE have fluctuated from 0.011 ppm (November 2007) to 0.272 ppm (April 2010) which are above its NYSDEC Class GA criteria.

The concentrations of VC have fluctuated from 0.011 ppm (October 2001) to 0.190 ppm (August 1997) which are above its NYSDEC Class GA criteria.

MW-13: The detected concentrations of PCE, TCE, 1,2-DCE and VC have been below method detection limits in all but one sample round since the start of MW-13 sampling in 2001. TCE was detected in October 2006 at a concentration of 0.002 ppm, which is below its respective NYSDEC Class GA criteria.

MW-14: The detected concentrations of TCE have been below method detection limits in seven of the nine sample rounds conducted since the start of MW-14 sampling in 2001. The two rounds where TCE did exceed its respective NYSDEC Class GA criteria were in February 2009 and July 2009.

The detected concentrations of PCE have been below method detection limits since the start of MW-14 sampling in 2001.

The detected concentrations of 1,2-DCE have been below method detection limits or below its respective NYSDEC Class GA criteria in seven of the nine sample rounds conducted since the start of MW-14 sampling in 2001. The two rounds were 1,2-DCE did exceed its respective NYSDEC Class GA criteria were in November 2007 and July 2009.

The detected concentrations of VC have been below method detection limits in eight of the nine sample rounds conducted since the start of MW-14 sampling in 2001. The one round where VC (0.003 ppm) did slightly exceed its respective NYSDEC Class GA criteria was in November 2008.

MW-15: The detected concentrations of TCE have been below method detection limits in the first seven of the nine sample rounds conducted since the start of MW-15 sampling in 2001. The two rounds where TCE (0.007 ppm, both rounds) did slightly exceed its respective NYSDEC Class GA criteria were in April 2010 and April 2011.

The detected concentrations of PCE have been above its NYSDEC Class GA criteria in the nine sample rounds conducted since the start of MW-15 sampling in 2001 ranging from 0.02 ppm (October 2001) to 0.0067 ppm (April 2011). There appears to be a general decreasing trend in the concentrations of PCE detected since 2001.

The detected concentrations of 1,2-DCE and VC have been below their method detection limits in the nine samples rounds conducted since the start of MW-15 sampling in 2001.

Natural Attenuation Performance

Last year GZA performed an analysis of the historical water quality data collected to date

to evaluate performance. The substantive conclusions of that work were as follows:

- Based on GZA's analysis of the historical data, there is limited evidence for natural attenuation near the source area (MW-7) and midpoint (MW-4) of the groundwater plume, but adequate to strong evidence for anaerobic biodegradation of COCs at the leading edge of the groundwater plume; and
- There is a general decreasing temporal concentration trend for TOC at each monitoring well over the period of record, indicating that while MNA has had some effectiveness to date in managing COC migration, the "fuel" that drives reductive dechlorination (*i.e.,* ultimately hydrogen, a fermentation product of the organic carbon) is becoming depleted.

GZA reviewed the April 2011 groundwater quality data and the data are generally consistent with the substantive conclusions and trends noted in last year's summary report.

CONCLUSIONS & RECOMMENDATIONS

Based on the results of the April 2011 sampling round, natural attenuation of COCs is occurring. There is a decreasing temporal trend in TOC concentrations, but the indicator parameters provide adequate to strong evidence that anaerobic biodegradation of the COCs is effectively controlling migration of impacted groundwater downgradient from the identified source area near MW-7. The decreasing TOC concentration trend across the Site indicates that the "fuel" that drives reductive dechlorination is becoming depleted.

GZA recommends continuing the annual groundwater sampling event utilizing eight (8) monitoring wells (MW-4, -7, -10, -11, -12, -13, -14 and -15), as stated in the SMP, in the Spring of 2012. In addition to the analytes routinely monitored, GZA recommends expanding the analyte list to include the following to provide clarity on the current status of residual TOC in the formation:

- Carbon dioxide;
- Alkalinity;
- Hydrogen;
- Volatile Fatty Acids; and
- Ethene/Ethane.

Please do not hesitate to contact the undersigned if you have any questions or require any additional information.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Christopher Boron
Senior Project Manager

Bart A. Klettke, P.E.
Associate Principal

FOR
I. Richard Schaffner, Jr., C.G.W.P.
Consultant Reviewer

Table 1 – Natural Attenuation Parameter Results
Figure 1 – Site Plan & Compound of Concern Analytical Data
Figure 2 – Total COC Contour Plan
Figure 3 – Groundwater Contour Plan
Appendix A: Monitoring Well Observations & Groundwater Sampling Logs
Appendix B: COC Data Graphs
Appendix C: Test America Analytical Laboratory Report

TABLE

Table 1
Summary of Groundwater Field Measurements and Analytical Test Results for Natural Attenuation Parameters
April 2011 Groundwater Sampling
Delphi Thermal Systems
West Lockport Complex
Lockport, New York

		Field Parameters					Analytical Test Results - Inorganic and Miscellaneous Water Quality Parameters																			
Location	Sample Date	Temp. (Deg. C)	Specific Cond. (mS/cm)	DO (mg/l)	ORP (mv)	pH (Std Units)	Methane (mg/l)	Organic Carbon (mg/l)	Alkalinity (mg/l)	Ammonia (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)	Nitrate Nitrite (mg/l)	Sulfate (mg/l)	Sulfide (mg/l)	Calcium (mg/l)	Dissolved Calcium (mg/l)	Iron (mg/l)	Dissolved Iron (mg/l)	Magnesium (mg/l)	Dissolved Magnesium (mg/l)	Manganese (mg/l)	Dissolved Manganese (mg/l)	Sodium (mg/l)	Dissolved Sodium (mg/l)	Potassium (mg/l)	Dissolved Potassium (mg/l)
MW-4	12/2/1998	14.2	2.730	0.23	-56	6.6	2.9	19	354	1.23	986	0.30	<0.05		120	0.2	503	443	0.58	0.51	105	106	0.40	0.32	282	293	13.3	12.8
MW-4 DUP	12/2/1998	NA	NA	NA	NA	NA	5.5	8	368	1.57	971	0.05	<0.05		120	0.2	431	335	0.59	0.52	107	100	0.39	0.34	282	306	13.2	13.5
MW-4	10/7/1999	13.8	3.412	0.08	-92.8	6.7	4.2	47	360	1.03	1,010			0.08	110	0.3	269	318	0.42	0.45	98	116	0.23	0.34	240	305	10.4	13.1
MW-4	8/9/2001	12.6	3.420	0.12	-5.1	6.5	0.12	20.2	366	1.20	1,300	0.11	<0.05		190	0.2	371		1.01		107		0.54		384		12.7	
MW-4	10/31/2001	13.8	3.444	0.10	-128.0	6.6	3.3	10.8	366	1.17	1,100	<0.05	<0.05		160	1.2			0.77		102		0.46		358		12.3	
MW-4	7/20/2009	17.7	1.263	0.28	35.1	6.41	5.28	13	330	3.83	5,320	<0.6	<0.6		295	2.0				3.21		193		2.64		2,100		50.5
MW-4	4/29/2010	15.0	9.664	0.96	-2.1	6.5	1.8	4.3	333	NA	3,510	<0.05	<0.05		272	<1.0				3.15		152		1.86		1,700		26.1
MW-4 DUP	4/22/2011	11.85	7.391	0.73	-349.0	6.77	2	0.6	343	1.9	3,260	<0.05	<0.05		370	<0.1	493		3.1		139		1.6		1420		17.8	
MW-7	12/3/1998	17.3	3.130	0.33	-35	7.0	0.06	36	376	1.43	944	0.29	<0.05		200	0.4	382	375	0.14	0.02	118	136	<0.01	<0.01	288	351	20.5	23.0
MW-7[3]	10/7/1999	19.4	3.049	0.69	-52	7.1	0.02	58	420	1.10	1,180			0.11	180	0.4	286	255	0.86	0.05	138	145	0.05	0.02	292	306	21.4	24.0
MW-7	10/25/2006	17.4	2.620	1.08	-92	7.1	0.06	28	376	1.33	600	<0.05	<0.05		470	<0.01			0.23		112		0.02		237		19.4	
MW-7	11/29/2007	15.5	2.162	0.83	-195	7.2	0.13	14	322	1.14	430	<0.05	<0.05		519	0.8			0.58		98.5		0.05		278		20.7	
MW-7	11/4/2008	16.2	3.152	0.33	-80	6.8	0.11	4.4	348	0.08	980	<0.05	<0.05		23	<0.1	327		6.06		74		2.28		277		4.39	
MW-7	2/24/2009	13.1	1.718	1.22	-68	7.3	0.04	NM	270	0.98	410	<0.05	<0.05		430	<0.1	193		0.09		86.7		0.04		213		14.2	
MW-7	7/20/2009	16.4	2.558	0.88	32	7.1	0.07	28	310	1.28	452	<0.6	<0.6		460	2.4				0.03		84.9		0.03		230		24.1
MW-7	4/29/2010	15.0	1.540	3.14	-13.4	7.24	0.057	10.9	239	NA	280	<0.05	<0.05		479	<1.0				0.41		70.2		0.02		204		13.9
MW-7	4/22/2011	10.4	1.241	3.75	-334	7.68	0.015	9.2	223	0.53	267	<0.05	<0.05		463	<0.1	121		0.20		60.1		0.025		3290		13.8	
MW-8	12/2/1998	16.7	3.210	0.90	-68	6.9	0.09	12	300	0.40	138	<0.05	<0.05		550	0.2	215	227	0.33	0.17	76	78	0.31	0.32	102	114	6.31	6.67
MW-8	10/7/1999	19.7	1.640	0.08	-116.1	7.1	0.04	19	280	0.33	144			0.10	570	0.3	174	188	0.22	0.15	82.4	97.5	0.30	0.31	112	110	7.6	8.1
MW-8	7/15/2009	16.3	2.408	0.20	-48.6	6.9	2.0	22	300	0.76	457	<0.6	<0.6		588	2				0.03		102		0.40		246		15.7
MW-8	4/30/2010	12.84	2.206	0.36	-58.6	6.9	0.015	1.8	243	NA	486	<0.05	<0.05		500	<1.0				0.21		99.2		0.46		248		7.99
MW-8	4/22/2011	9.39	2.327	4.56	-334	7.26	0.018	<1	244	0.30	683	<0.05	<0.05		562	<0.1	220		0.12		102		0.53		355		7.9	
MW-9	12/2/1998	16.2	7.150	1.6	120	6.9	0.04	3	309	0.23	640	0.25	<0.05		680	<0.1	330	300	0.33	<0.01	89	84.5	1.74	0.93	444	445	5.52	5.91
MW-9	10/5/1999	18.7	4.042	0.08	103.5	6.9	0.02	24	330	0.20	963	0.46	<0.05		520	<0.1	250	283	0.20	0.02	63.8	89	1.36	0.99	476	535	4.6	26.5
MW-9 DUP	10/5/1999	NA	NA	NA	NA	NA	0.02	27	340	0.14	833	0.63	<0.05		490	<0.1	252	284	0.20	0.02	72	86	1.46	0.94	478	560	5.0	5.6
MW-9	7/20/2009	17.8	8.381	0.41	109.1	6.7	0.03	17	290	0.26	3,100	<0.6	0.9		379	1.2				<0.01		117		0.31		1,600		19.0
MW-9	4/30/2010	12.0	8.042	0.79	86.4	6.7	0.015	2.1	247	NA	3,040	0.555	<0.05		263	<1.0				<0.05		102		0.15		1,680		8.72
MW-9	4/22/2011	9.49	7.263	0.24	-345	7.08	0.0069	<1	233	0.11	3,410	0.39	<0.05		362	<0.1	392		0.03		94.9		0.11		1,710		6.9	
MW-10	12/1/1998	14.5	4.100	0.40	-13.7	6.7	0.23	11	320	0.32	1,220	0.19	<0.05		270	0.2	310	305	1.95	0.76	54.6	85.5	2.30	2.07	584	645	13.4	13.2
MW-10	10/5/1999	14.2	4.775	0.07	-2.0	6.8	0.14	24	280	0.29	1,010	0.15	0.10		240	<0.1	39.8	254	0.73	0.04	9.94	102	0.99	1.12	33.2	635	18.8	10.1
MW-10	8/9/2001	12.2	5.033	0.17	249.1	6.6	0.018	10.0	334	0.16	1,700	0.08	<0.05		330	0.1	330		0.14		98.9	99.6	1.66		857	845	9.2	
MW-10	10/31/2001	14.4	3.990	0.15	90.9	6.7	0.20	3.6	336	0.12	2,800	0.17	<0.05		280	1.6			0.05		92.1		0.91		720		7.6	
MW-10	7/15/2009	13.2	9.579	0.76	79.6	6.6	0.36	33.0	330	0.27	4,260	<0.6	<0.6		276	0.8				0.08		103		2.63		1,950		21.1
MW-10 (DUP)	4/28/2010	11.0	3.741	0.35	16.2	6.88	0.14	4.3	263	NA	1,460	0.053	<1.0		168	<1.0				10.5		35.0		1.31		890		4.57
MW-10	4/21/2011	10.29	6.218	0.42	-337.0	6.98	0.064	4.1	277	0.11	3,230	<0.05	<0.05		175	<0.1	281		0.75		77.3		2.10		1760		6.9	
MW-11	12/1/1998	11.9	4.360	0.22	-271	7.6	0.01	17	275	0.58	188	0.17	<0.05		110	0.2	122	97.3	1.00	0.26	39.0	36.4	0.11	0.08	116	129	8.88	10.1
MW-11	10/5/1999	11.9	5.228	2.34	-231	7.7	0.05	20	270	0.76	192	0.05	<0.05		210	0.5	93.4	150	0.34	0.30	46.4	103	0.08	0.08	180	695	10.9	27
MW-11	8/8/2001	10.4	3.576	0.12	-73.6	7.4	<0.002	12.0	285	0.46	250	<0.05	<0.05		140	0.1	111		0.14		43.2		0.12		130		8.0	
MW-11	10/30/2001	12.0	4.126	0.04	-248.8	7.5	<0.002	3.1	265	0.46	230	<0.05	<0.05		110	2.8			0.02		38.7		0.41		120		9.1	
MW-11	10/24/2006	13.1	8.000	1.61	-106	7.3	0.008	1.9	341	0.12	108	0.16	<0.05		66	<0.1			0.80		30.7		0.08		85		7.6	
MW-11	11/28/2007	10.7	1.390	0.38	-309	7.2	0.008	3.0	233	0.38	410	0.18	<0.05		144	1.0			0.74		42.1		0.08		235		12.3	
MW-11	11/4/2008	14.4	1.377	0.56	-200	7.3	0.005	2.38	249	0.28	200	<0.05	<0.05		101	0.2	95.6		0.38		38.8		0.08		134		8.4	
MW-11	7/16/2009	13.7	1.143	0.33	-15.2	7.3	0.019	16.00	260	0.45	246	<0.6	<0.6		112	2.0				0.11		41.3		0.11		138		11.4
MW-11	4/28/2010	9.2	1.145	0.46	-126.3	7.3	0.013	2.1	245	NA	325	0.109	<0.05		93.6	<1.0				2.55		44.3		0.220		152		8.94
MW-11	4/21/2011	7.5	0.807	1.72	-325	7.56	0.0071	2.8	294	0.038	170	0.32	<0.05		53.5	<0.1	92.5		0.14		30.8		0.09		119		5.7	

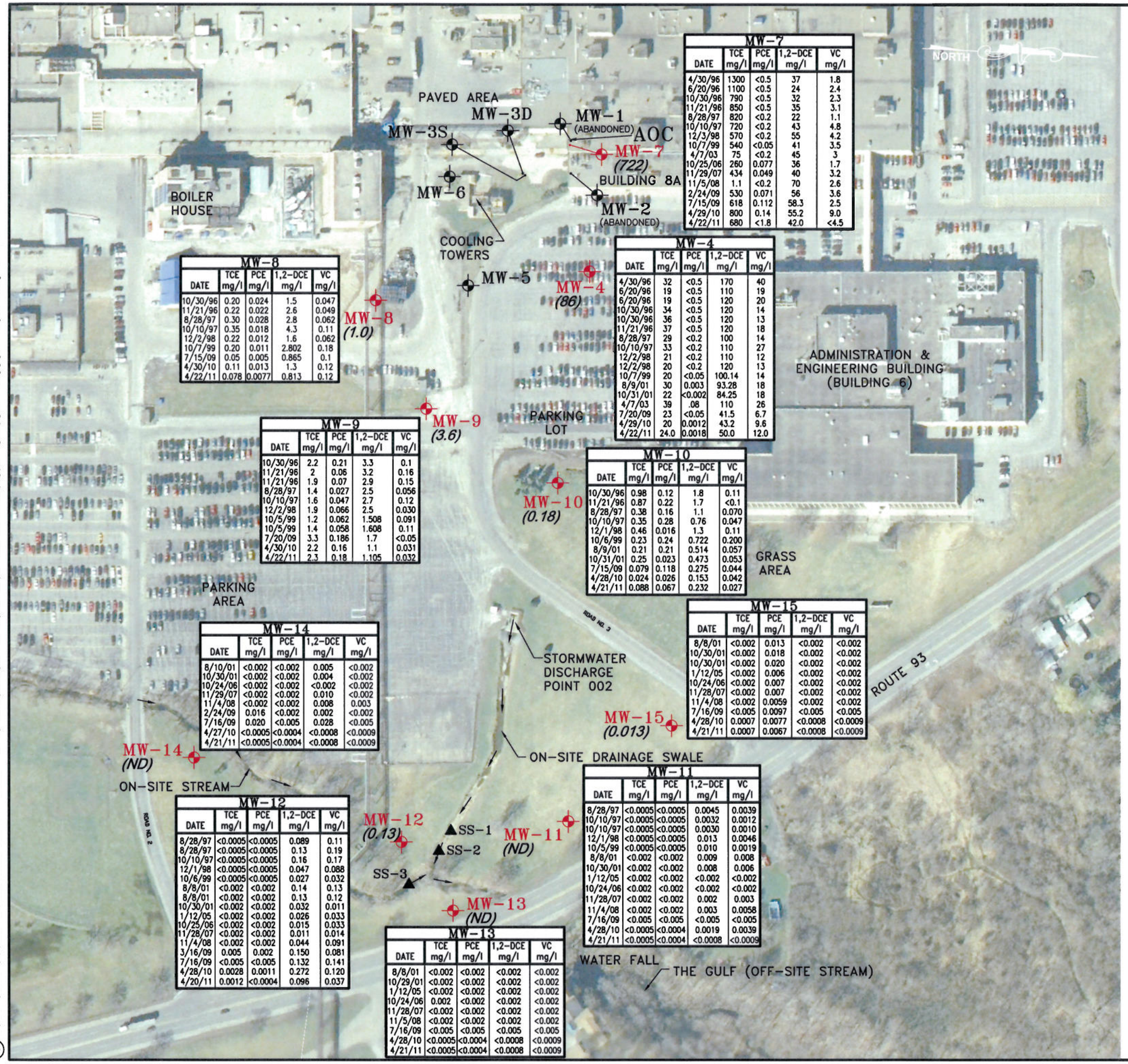
Notes:
1. In general the field parameters were stable with very little variation. However, as noted, some readings varied.
2. Readings were collected using a low flow peristalic pump and water quailty meter with flow through cell..
3. Analytical Testing completed by TestAmerica Laboratories, Inc.
3. Results shown for MW-4 are the higher of the results from the sample designated MW-4 or its duplicate sample (DUP).
4. < - Indicates compound not detected above the specified detection limit.
5. Blank = Not tested.
6. NM = not measured

Table 1
Summary of Groundwater Field Measurements and Analytical Test Results for Natural Attenuation Parameters
April 2011 Groundwater Sampling
Delphi Thermal Systems
West Lockport Complex
Lockport, New York

		Field Parameters					Analytical Test Results - Inorganic and Miscellaneous Water Quality Parameters																				
Location	Sample Date	Temp. (Deg. C)	Specific Cond. (mS/cm)	DO (mg/l)	ORP (mv)	pH (Std Units)	Methane (mg/l)	Organic Carbon (mg/l)	Alkalinity (mg/l)	Ammonia (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)	Nitrate Nitrite (mg/l)	Sulfate (mg/l)	Sulfide (mg/l)	Calcium (mg/l)	Dissolved Calcium (mg/l)	Iron (mg/l)	Dissolved Iron (mg/l)	Magnesium (mg/l)	Dissolved Magnesium (mg/l)	Manganese (mg/l)	Dissolved Manganese (mg/l)	Sodium (mg/l)	Dissolved Sodium (mg/l)	Potassium (mg/l)	Dissolved Potassium (mg/l)
MW-12	12/1/1998	13.4	2.006	0.39	-41	6.9	0.5	7	284	0.94	294	0.48	<0.05		73	0.2	119	104	7.48	4.01	26.8	25.3	4.41	4.40	183	197	4.1	3.81
MW-12	10/5/1999	15.8	1.849	0.10	-105.2	7.0	0.36	30	300	0.90	342	0.27	<0.05		66	0.2	104	126	<0.01	3.66	27.8	31.6	<0.01	4.90	166	226	4.9	5.3
MW-12	8/8/2001	13.5	3.300	0.24	-38.5	6.6	0.50	13.9	336	1.77	920	<0.05	<0.05		160	<0.1	217		16.9		57.5		8.41		427		6.3	
MW-12 DUP	8/8/2001	NA	NA	NA	NA	NA	0.74	14.9	338	1.85	930	<0.05	<0.05		160	<0.1	217		14.8		56.2		8.14		433		6.0	
MW-12	10/30/2001	14.2	2.850	0.14	-127.1	6.8	0.57	5.7	309	1.35	590	0.18	<0.05		110	3.5			4.73		37.0		4.69		342		5.0	
MW-12	10/25/2006	13.7	3.500	1.26	-127.1	6.9	0.024	6.5	333	1.55	1,300	<0.05	<0.05		110	<0.1			7.50		44.8		6.02		684		4.5	
MW-12	11/28/2007	11.2	3.307	0.18	-302	7.0	0.012	4.0	274	1.47	1,300	<0.05	<0.05		79	<0.04			6.68		46.0		4.44		666		3.9	
MW-12	11/4/2008	14.3	6.319	0.02	-88	6.7	0.12	2.74	332	2.08	2,000	<0.05	<0.05		138	<0.1	259		13.70		69.7		7.82		1110		5.6	
MW-12	3/16/2009	6.1	4.516	1.08	-48	6.6	0.87	NM	270	1.89	2,300	<0.05	<0.05		140	<0.1	269		11.50		81.7		8.60		1060		5.1	
MW-12	7/16/2009	14.5	6.493	0.64	-39.3	6.7	0.9	14	360	2.57	2,480	<0.6	<0.6		148	0.8				15.10		79.1		9.07		1,170		10.9
MW-12	4/28/2010	8.8	6.562	0.32	-46.1	6.6	0.46	5.0	315	NA	2,630	<0.05	0.039		153	<1.0				14.0		98.0		10.40		1,470		5.22
MW-12	4/20/2011	8.83	6.320	0.00	-65	6.9	0.042	3.3	272	1.1	1,880	<0.05	<0.05		108	<1.0	227		6.6		65.1		7.1		958		3.7	
MW-13	8/8/2001	15.4	5.742	0.23	-118.5	7.8	0.08	15.2	255	1.45	1,900	0.05	<0.05		160	<0.1	209		2.59		49.6		2.67		1,200		12.1	
MW-13	10/29/2001	15.5	6.625	0.20	-136	7.4	0.07	9.9	426	1.29	1,700	0.61	0.08		120	2.2			3.75		40.9		2.96		1,160		8.2	
MW-13	10/24/2006	15.2	6.090	2.67	-146	7.3	0.16	8.4	431	1.35	2,200	<0.05	<0.05		98	<0.1			9.21		53.7		6.03		1,210		9.1	
MW-13	11/28/2007	12.7	5.696	0.08	-274	7.3	0.003	7.0	420	1.74	2,200	0.05	<0.05		95	0.4			7.83		50.8		4.95		1,250		9.6	
MW-13	11/5/2008	7.08	6.782	0.12	-97	7.1	0.021	3.8	410	1.57	2,000	<0.05	<0.5		91	<0.1	196		7.60		52.3		5.40		1,430		11.0	
MW-13	7/16/2009	16.0	6.476	0.60	-113.4	7.2	6.15	15	400	2.10	2,290	<0.6	<0.6		112	<0.5				1.75		53.9		6.51		1,390		18.9
MW-13	4/28/2010	9.4	5.783	0.28	-133.5	7.2	0.17	6.1	382	NA	2,280	0.069	<0.05		102	<1.0				9.12		59.9		7.18		1,380		11.2
MW-13	4/21/2011	7.64	5.023	0.34	-336	7.4	0.058	5.8	368	0.94	2,090	0.069	<0.05		105	<0.1	210		7.4		53.2		6.30		1,320		8.3	
MW-14	8/9/2001	11.5	2.064	3.66	330.7	7.2	<0.002	14.1	328	0.19	680	0.08	<0.05		130	<0.1	144		0.18		64.1		0.04		394		6.4	
MW-14	10/30/2001	13.2	2.478	0.80	-39.1	7.2	0.013	4.3	334	0.31	770	<0.05	<0.05		120	2.5			0.06		64.8		0.06		466		7.3	
MW-14	10/24/2006	12.9	4.310	3.11	-60.6	7.2	0.31	3.3	336	0.25	1,700	<0.05	<0.05		88	<0.1			0.15		94.9		0.20		831		8.0	
MW-14	11/29/2007	10.3	4.402	1.27	-110	7.1	0.16	4.0	371	0.53	1,800	<0.05	<0.05		87	0.12			0.44		111		0.25		777		10.5	
MW-14	11/4/2008	14.5	6.397	0.13	11.2	6.8	0.14	2.4	340	0.39	2,100	<0.05	<0.05		80	<0.1	320		0.39		138		0.28		1010		13.5	
MW-14	2/24/2009	5.3	3.534	0.73	-34	7.2	0.15	NM	299	0.23	1,500	0.07	<0.05		68	<0.1	165		0.06		79.8		0.18		833		7.3	
MW-14	7/16/2009	11.6	5.970	1.87	72.6	6.8	0.465	51	380	0.69	2,430	<0.6	<0.6		81.4	1.2				0.11		132		0.53		931		21.1
MW-14	4/27/2010	9.8	3.726	0.32	16.8	7.1	0.055	2.7	354	NA	1,450	0.03	<0.05		65.7	<1.0				0.06		70.2		0.194		870		6.22
MW-14	4/21/2011	7.72	3.779	2.45	-335	7.5	0.016	2.8	339	0.14	1,750	0.093	<0.05		78.2	<0.1	149		0.052		68		0.19		875		5.4	
MW-15	10/24/2006	13.9	2.180	1.14	64.2	6.8	<0.002	3.6	434	0.09	660	1.89	<0.05		84	<0.1			<0.02		62.3		0.27		311		4.7	
MW-15	11/28/2007	11.7	3.085	3.16	-128	7.1	<0.002	2.0	346	1.03	1100	<0.05	<0.05		74	<0.04			0.14		71.7		0.39		455		4.9	
MW-15 DUP	11/4/2008	14.3	4.719	2.42	75	6.8	<0.002	1.77	345	0.07	1,900	0.34	<0.05		110	<0.1	327		<0.02		82.3		0.82		594		6.1	
MW-15	7/16/2009	14.6	3.349	1.49	135.7	6.8	<0.004	12	400	<0.1	1,130	1.7	<0.6		88.7	1.6				0.02		65.0		0.14		475		7.94
MW-15	4/28/2010	9.5	1.998	0.35	41.1	6.8	<0.0022	3.3	419	NA	627	1.03	<0.02		66.0	<0.7				<0.019		48.2		0.13		318		3.14
MW-15	4/21/2011	7.71	2.294	2.43	-328	6.8	<0.0022	3.5	394	<0.02	895	0.95	<0.02		86.7	<0.1	217		0.02		55.5		0.24		390		3.7	
TK-2	10/6/1999	13.3	7.02	0.19	66.9	7.5			380		20.2																	

Notes:
1. In general the field parameters were stable with very little variation. However, as noted, some readings varied.
2. Readings were collected using a low flow peristalic pump and water quailty meter with flow through cell..
3. Analytical Testing completed by TestAmerica Laboratories, Inc.
3. Results shown for MW-4 are the higher of the results from the sample designated MW-4 or its duplicate sample (DUP).
4. < - Indicates compound not detected above the specified detection limit.
5. Blank = Not tested.
6. NM = not measured

FIGURES



MW-7

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
4/30/96	1300	<0.5	37	1.8
6/20/96	1100	<0.5	24	2.4
10/30/96	790	<0.5	32	2.3
11/21/96	850	<0.5	35	3.1
8/28/97	820	<0.2	22	1.1
10/10/97	720	<0.2	43	4.8
12/3/98	570	<0.2	55	4.2
10/7/99	540	<0.05	41	3.5
4/7/03	75	<0.2	45	3
10/25/06	260	0.077	36	1.7
11/29/07	434	0.049	40	3.2
11/5/08	1.1	<0.2	70	2.6
2/24/09	530	0.071	56	3.6
7/15/09	618	0.112	58.3	2.5
4/29/10	800	0.14	55.2	9.0
4/22/11	680	<1.8	42.0	<4.5

MW-8

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
10/30/96	0.20	0.024	1.5	0.047
11/21/96	0.22	0.022	2.6	0.049
8/28/97	0.30	0.028	2.8	0.062
10/10/97	0.35	0.018	4.3	0.11
12/2/98	0.22	0.012	1.6	0.062
10/7/99	0.20	0.011	2.802	0.18
7/15/09	0.05	0.005	0.865	0.1
4/30/10	0.11	0.013	1.3	0.12
4/22/11	0.078	0.0077	0.813	0.12

MW-4

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
4/30/96	32	<0.5	170	40
6/20/96	19	<0.5	110	19
6/20/96	19	<0.5	120	20
10/30/96	34	<0.5	120	14
10/30/96	36	<0.5	120	13
11/21/96	37	<0.5	120	18
8/28/97	29	<0.2	100	14
10/10/97	33	<0.2	110	27
12/2/98	21	<0.2	110	12
12/2/98	20	<0.2	120	13
10/7/99	20	<0.05	100.14	14
8/9/01	30	0.003	93.28	18
10/31/01	22	<0.002	84.25	18
4/7/03	39	.08	110	26
7/20/09	23	<0.05	41.5	6.7
4/29/10	20	0.0012	43.2	9.6
4/22/11	24.0	0.0018	50.0	12.0

MW-9

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
10/30/96	2.2	0.21	3.3	0.1
11/21/96	2	0.06	3.2	0.16
11/21/96	1.9	0.07	2.9	0.15
8/28/97	1.4	0.027	2.5	0.056
10/10/97	1.6	0.047	2.7	0.12
12/2/98	1.9	0.066	2.5	0.030
10/5/99	1.2	0.062	1.508	0.091
10/5/99	1.4	0.058	1.608	0.11
7/20/09	3.3	0.186	1.7	<0.05
4/30/10	2.2	0.16	1.1	0.031
4/22/11	2.3	0.18	1.105	0.032

MW-10

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
10/30/96	0.98	0.12	1.8	0.11
11/21/96	0.87	0.22	1.7	<0.1
8/28/97	0.38	0.16	1.1	0.070
10/10/97	0.35	0.28	0.76	0.047
12/1/98	0.46	0.016	1.3	0.11
10/6/99	0.23	0.24	0.722	0.200
8/9/01	0.21	0.21	0.514	0.057
10/31/01	0.25	0.023	0.473	0.053
7/15/09	0.079	0.118	0.275	0.044
4/28/10	0.024	0.026	0.153	0.042
4/21/11	0.088	0.067	0.232	0.027

MW-14

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/10/01	<0.002	<0.002	0.005	<0.002
10/30/01	<0.002	<0.002	0.004	<0.002
10/24/06	<0.002	<0.002	<0.002	<0.002
11/29/07	<0.002	<0.002	0.010	<0.002
11/4/08	<0.002	<0.002	0.008	0.003
2/24/09	0.016	<0.002	0.002	<0.002
7/16/09	0.020	<0.005	0.028	<0.005
4/27/10	<0.0005	<0.0004	<0.0008	<0.0009
4/21/11	<0.0005	<0.0004	<0.0008	<0.0009

MW-15

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/8/01	<0.002	0.013	<0.002	<0.002
10/30/01	<0.002	0.018	<0.002	<0.002
10/30/01	<0.002	0.020	<0.002	<0.002
1/12/05	<0.002	0.006	<0.002	<0.002
10/24/06	<0.002	0.007	<0.002	<0.002
11/28/07	<0.002	0.007	<0.002	<0.002
11/4/08	<0.002	0.0059	<0.002	<0.002
7/16/09	<0.005	0.0097	<0.005	<0.005
4/28/10	0.0007	0.0077	<0.0008	<0.0009
4/21/11	0.0007	0.0067	<0.0008	<0.0009

MW-12

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/28/97	<0.0005	<0.0005	0.089	0.11
8/28/97	<0.0005	<0.0005	0.13	0.19
10/10/97	<0.0005	<0.0005	0.16	0.17
12/1/98	<0.0005	<0.0005	0.047	0.088
10/6/99	<0.0005	<0.0005	0.027	0.032
8/8/01	<0.002	<0.002	0.14	0.13
8/8/01	<0.002	<0.002	0.13	0.12
10/30/01	<0.002	<0.002	0.032	0.011
1/12/05	<0.002	<0.002	0.026	0.033
10/25/06	<0.002	<0.002	0.015	0.033
11/28/07	<0.002	<0.002	0.011	0.014
11/4/08	<0.002	<0.002	0.044	0.091
3/16/09	0.005	0.002	0.150	0.081
7/16/09	<0.005	<0.005	0.132	0.141
4/28/10	0.0028	0.0011	0.272	0.120
4/20/11	0.0012	<0.0004	0.096	0.037

MW-11

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/28/97	<0.0005	<0.0005	0.0045	0.0039
10/10/97	<0.0005	<0.0005	0.0032	0.0012
10/10/97	<0.0005	<0.0005	0.0030	0.0010
12/1/98	<0.0005	<0.0005	0.013	0.0046
10/5/99	<0.0005	<0.0005	0.010	0.0019
8/8/01	<0.002	<0.002	0.009	0.008
10/30/01	<0.002	<0.002	0.008	0.006
1/12/05	<0.002	<0.002	<0.002	<0.002
10/24/06	<0.002	<0.002	<0.002	<0.002
11/28/07	<0.002	<0.002	0.002	0.003
11/4/08	<0.002	<0.002	0.003	0.0058
7/16/09	<0.005	<0.005	<0.005	<0.005
4/28/10	<0.0005	<0.0004	0.0019	0.0039
4/21/11	<0.0005	<0.0004	<0.0008	<0.0009

MW-13

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/8/01	<0.002	<0.002	<0.002	<0.002
10/29/01	<0.002	<0.002	<0.002	<0.002
1/12/05	<0.002	<0.002	<0.002	<0.002
10/24/06	0.002	<0.002	<0.002	<0.002
11/28/07	<0.002	<0.002	<0.002	<0.002
11/5/08	<0.002	<0.002	<0.002	<0.002
7/16/09	<0.005	<0.005	<0.005	<0.005
4/28/10	<0.0005	<0.0004	<0.0008	<0.0009
4/21/11	<0.0005	<0.0004	<0.0008	<0.0009

NOTES:

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html AND SITE OBSERVATIONS.

2. ANALYTICAL TESTING WAS COMPLETED BY FREE-COL LABORATORIES, INC.

3. UNITS ARE LISTED IN MILLIGRAMS PER LITER (mg/l). (< - INDICATES COMPOUND NOT DETECTED ABOVE THE SPECIFIED DETECTION LIMIT)

4. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

MW-8 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED BY GZA

▲SS-1 — APPROXIMATE LOCATION AND DESIGNATION OF STREAM WATER SAMPLE

AOC — DENOTES AREA OF CONCERN

TCE = TRICHLOROETHENE

PCE = TETRACHLOROETHENE

1,2-DCE = TRANS & CIS 1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

DRAWN BY: DEW

DATE: MAY 2011

GZA GeoEnvironmental of New York

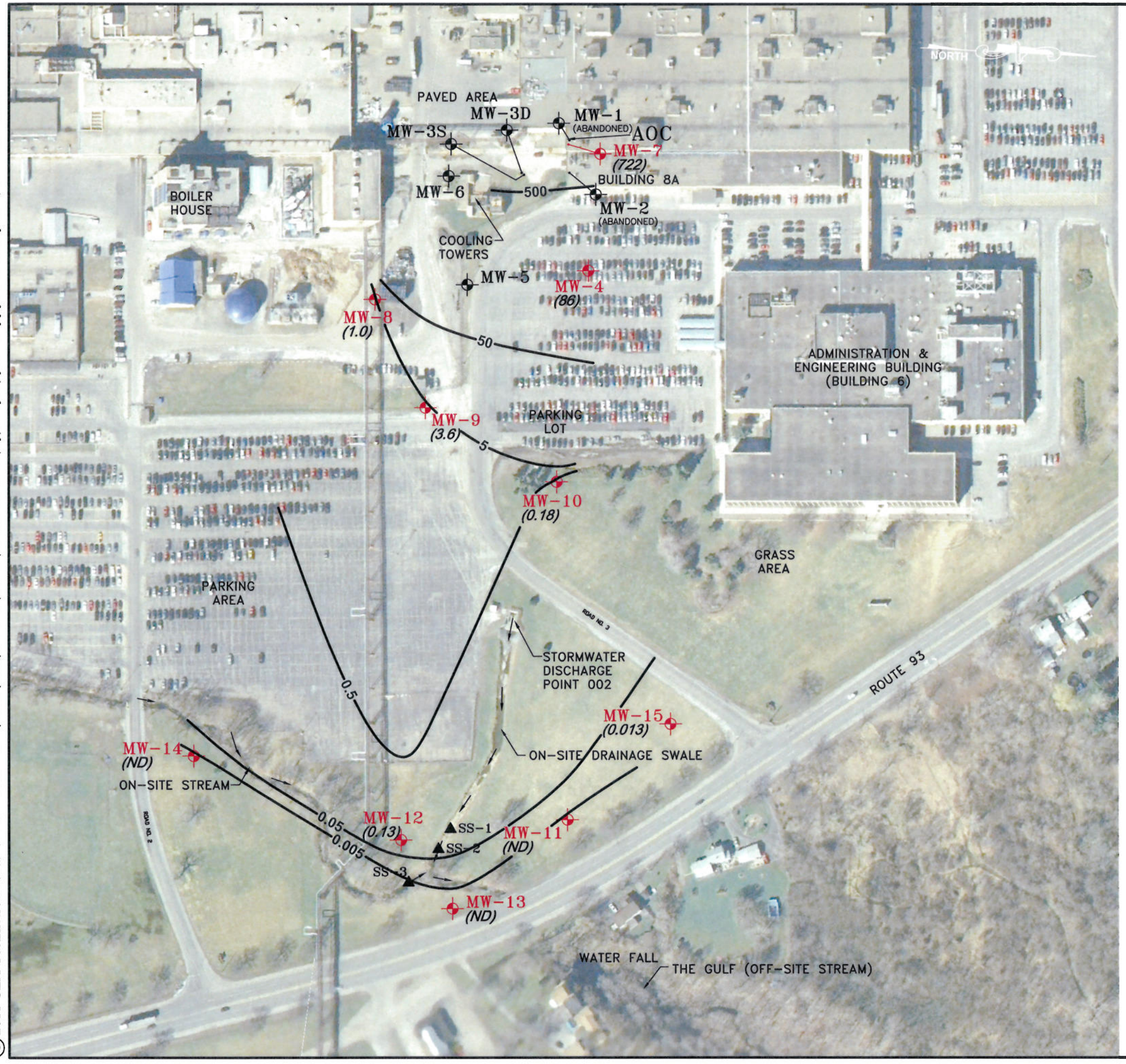
APPROXIMATE SCALE IN FEET: 0, 90, 180, 360

GM COMPONENTS HOLDINGS, LLC
DELPHI HARRISON THERMAL SYSTEMS SITE
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK
APRIL 2011 SAMPLING

GROUNDWATER ANALYTICAL TEST RESULTS FOR TARGET CHLORINATED COMPOUNDS

PROJECT No. 21.0056546.00

FIGURE No. 1



NOTES:

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html AND SITE OBSERVATIONS.

2. ANALYTICAL TESTING WAS COMPLETED BY FREE-COL LABORATORIES, INC.

3. UNITS ARE LISTED IN MILLIGRAMS PER LITER (mg/l). (< - INDICATES COMPOUND NOT DETECTED ABOVE THE SPECIFIED DETECTION LIMIT)

4. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

- 50 — APPROXIMATE LOCATION AND CONCENTRATION OF TOTAL VOC CONTOUR
- MW-4 (73) — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED BY GZA SHOWN WITH TOTAL VOC CONCENTRATION
- ▲SS-1 — APPROXIMATE LOCATION AND DESIGNATION OF STREAM WATER SAMPLE
- AOC — DENOTES AREA OF CONCERN

TCE = TRICHLOROETHENE

PCE = TETRACHLOROETHENE

1,2-DCE = TRANS & CIS 1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

DRAWN BY: DEW

DATE: MAY 2011

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 90 180 360

GM COMPONENTS HOLDINGS, LLC

DELPHI HARRISON THERMAL SYSTEMS SITE

200 UPPER MOUNTAIN ROAD

LOCKPORT, NEW YORK

APRIL 2011 SAMPLING

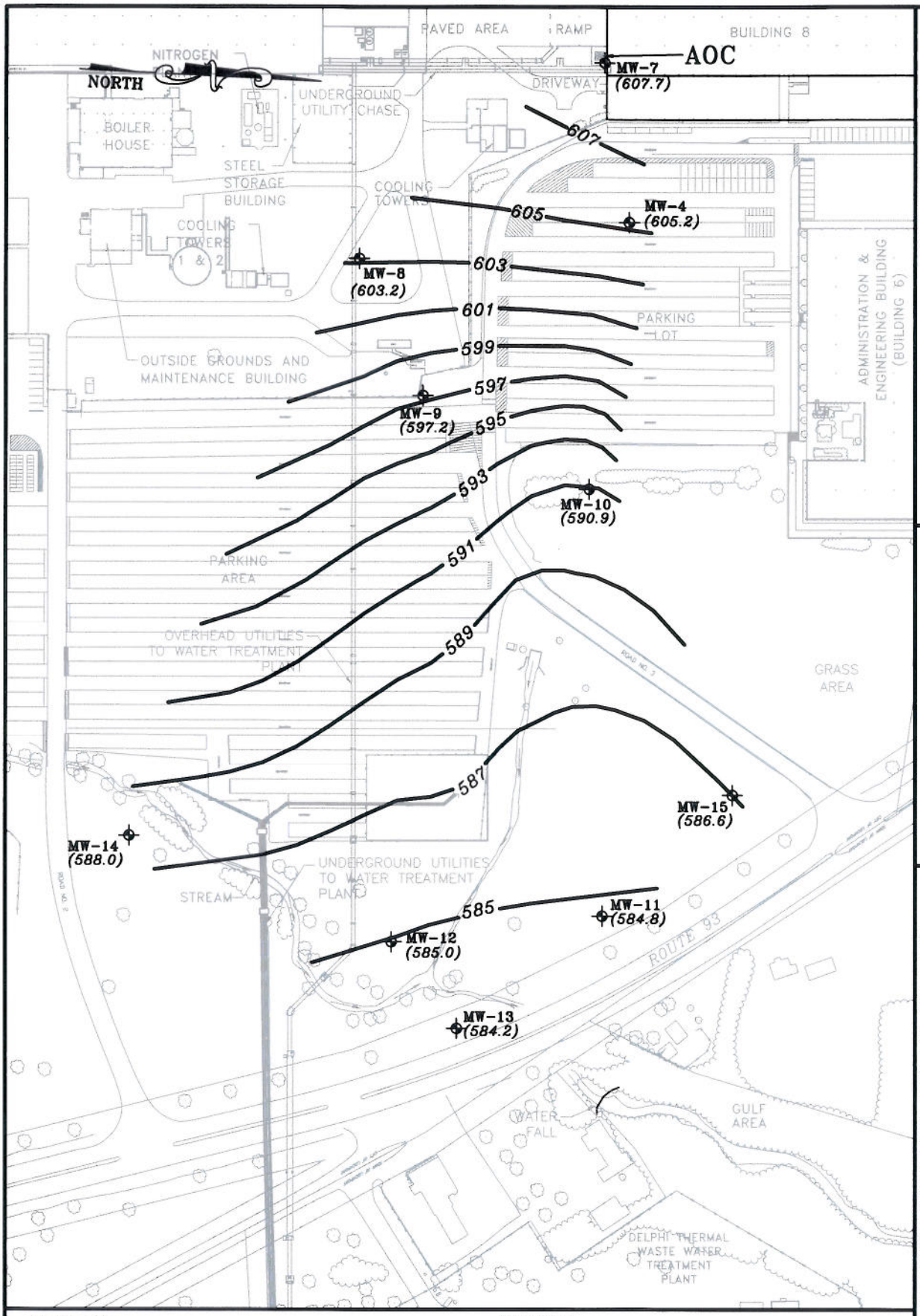
TOTAL VOC CONTOUR MAP

PROJECT No.

21.0056546.00

FIGURE No.

2



LEGEND:

MW-4 (605.2) — APPROXIMATE LOCATION AND DESIGNATION OF EXISTING MONITORING WELL INSTALLED BY GZA

APPROXIMATE GROUNDWATER ELEVATION MEASURED ON DATE SHOWN IN TITLE BLOCK

AOC DENOTES AREA OF CONCERN

NOTES:

1. BASE MAP ADAPTED FROM AN AUTOCAD FILE PROVIDED BY DELPHI HARRISON THERMAL SYSTEMS.

2. WATER LEVEL READINGS HAVE BEEN MADE IN WELLS AT TIMES AND UNDER CONDITIONS PRESENTED IN THE REPORT. FLUCTUATIONS IN GROUNDWATER ELEVATIONS MAY OCCUR DUE TO VARIATIONS IN RAINFALL, BAROMETRIC PRESSURE, AND OTHER FACTORS.

DRAWN BY: DEW

DATE: MAY 2011

GZA GeoEnvironmental of New York

SCALE IN FEET

0 100 200 400

GM COMPONENTS HOLDINGS, LLC

DELPHI HARRISON THERMAL SYSTEMS SITE

200 UPPER MOUNTAIN ROAD

LOCKPORT, NEW YORK

APRIL 2011 SAMPLING

GROUNDWATER CONTOUR PLAN

(MAY 2, 2011)

PROJECT No.

21.0056546.00

FIGURE No.

3

GZA–T:\PROJECTS\56500s\56546 GM Component LLC\TCE Release Area MNA Sampling\2011 Figures\FIGURE 3 GW CONTOURS.dwg [FIGURE 3] September 12, 2011 – 11:25am daniel.wulff

APPENDIX A

MONITORING WELL OBSERVATION & GROUNDWATER SAMPLING LOGS

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME: GM Components Holding (GMCH) PROJECT NO. 210056540.04

SAMPLING CREW MEMBERS: Jennifer Davide SUPERVISOR: Chris Boran

DATE OF SAMPLE COLLECTION: 4/20/11 → 4/22/11

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-4	MW-4	613.07	34.89	8.49	604.58	4.2		5.8	6.77	11.85	7.391	4/22/11 15:15	
MW-7	MW-7	613.86	28.92	6.63	607.23	3.5		7.25	7.68	10.38	1.241	4/22 12[00]	
MW-8	MW-8	608.97	18.66	5.70	603.27	2.1		4.9	7.26	9.39	2.327	4/22 13[30]	
MW-9	MW-9	604.90	17.10	7.43	597.47	1.5		3.6	7.08	9.49	7.263	4/22 11[15]	
MW-10	MW-10	604.70	23.63	12.87	591.83	1.7		3.25	6.98	10.29	6.218	4/21 16[10]	
MW-11	MW-11	590.10	25.10	5.29	584.81	3.17		4.6	7.56	7.46	0.807	4/21 10[15]	
MW-12	MW-12	590.70	16.3	5.90	584.78	1.6		4	6.87	8.83	6.32	4/20 10[00]	
MS/MSD MW-13	MW-13	589.02	14.04	4.85	584.17	1.47		4	7.42	7.64	5.023	4/21 12[00]	

Additional Comments:

Copies to:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME _____ PROJECT NO. _____

SAMPLING CREW MEMBERS _____ SUPERVISOR _____

DATE OF SAMPLE COLLECTION _____

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-14	MW-14	592.77	21.32	4.46	588.31	2.67		4.3	7.45	7.72	3779	4/21 1445	
MW-15	MW-15	594.04	16.83	7.05	586.99	1.56		3.5	6.84	7.71	2294	4/21 9:10	
DUP	MW-4	613.07	34.89	8.49	604.58	4.2		5.8	6.77	11.85	7391	4/22 15:15	

Additional Comments _____

Copies to: _____

FMC MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Rel. No.: 21.0056546 Task 4

Date: 4/22/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-4 1 of 2 (DUP)
Measurement Point: TOR
Constructed Well Depth (ft): 32.5
Measured Well Depth (ft): 34.89
Depth of Sediment (ft): NA

Screen Length (ft): 17.5 - 32.5 (15')
Depth to Pump Intake (ft)[1]: 20'
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 4.2 Gal
Initial Depth to Water (ft): 8.49

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
2:04	567	9.62	1.13	7.16	10.63	5.989	-339	22.49	30	0	0
2:09	190	10.66	2.17	7.12	10.66	5.971	-338	13.35	19	.75	
2:14	151	10.66	2.17	7.15	10.31	5.908	-338	17.95	18	1	
2:19	227	10.69	2.19	7.17	10.34	6.033	-335	14.79	13	1.2	
2:24	227	10.68	2.18	7.13	10.35	6.843	-339	9.36	14	1.5	
2:29	151	10.70	2.21	7.13	10.66	6.907	-341	7.48	46	1.8	
2:34	151			6.88	11.09	7.131	-341	6.99	58	2	
2:39	151			6.82	11.15	7.128	-345	6.42	46	2.2	
2:44	227			6.79	11.29	7.234	-346	8.04	39	2.4	
2:49	227			6.89	11.37	7.301	-348	3.29	27	2.7	
2:54	151			6.77	11.51	7.311	-347	3.41	24	3	
2:59	151			6.75	11.47	7.370	-347	8.21	32	3.2	
3:04	151	↓	↓	6.77	11.49	7.361	-347	8.03	18	3.4	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: ______________________

Ref. No.: ______________________

Date: 4/22/11

Personnel: ______________________

Monitoring Well Data:

Well No.: MW-4 2 of 2 Dup

Measurement Point: ______________________

Constructed Well Depth (ft): ______________________

Measured Well Depth (ft): ______________________

Depth of Sediment (ft): ______________________

Screen Length (ft): ______________________

Depth to Pump Intake (ft)(1): ______________________

Well Diameter, D (in): ______________________

Well Screen Volume, V_s (mL)(2): ______________________

Initial Depth to Water (ft): ______________________

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level(3) (ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged(4)*
3:09	227	10.70	2.21	6.76	11.71	7.270	-356	7.83	14	3.7	
3:14	↓	↓	↓	6.77	11.74	7.277	-350	8.40	24	4	
3:19				6.75	11.89	7.373	-349	8.43	13	4.3	1
3:24				6.73	11.86	7.390	-348	8.41	9	4.6	
3:29				6.77	11.85	7.391	-349	8.43	10	4.9	
3:34				6.77	11.84	7.392	-349	8.42	9	5.2	
3:39				6.78	11.84	7.381	-349	8.42	5	5.5	
3:44				6.77	11.85	7.391	-349	8.41	6	5.8	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 516516-014

SITE/PROJECT NAME: _____

WELL# MW-14

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
04/22/11	04/22/11	1.42	5.68

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT: DEDICATED: Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT: DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP	D - GAS LIFT PUMP; E - PURGE PUMP	G - BAILER; H - WATERRA®	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON®; B - STAINLESS STEEL	D - PVC; E - POLYETHYLENE		X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON; B - TYGON	D - POLYPROPYLENE; E - POLYETHYLENE	F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE	X- _____ (SPECIFY)		X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	1613.07 (m/ft)	GROUNDWATER ELEVATION	1601.58 (m/ft)
DEPTH TO WATER	11.49 (m/ft)	WELL DEPTH	13.15.0 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear-Red Specks TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED: 5-10 DIRECTION: NNE PRECIPITATION Y/N QUANTITY: Cloudy, 80°

SPECIFIC COMMENTS: _____

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

4/22/11 DATE | Jennifer Davide PRINT | SIGNATURE

FMC MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21.0056546 Task 4

Date: 4/22/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-7 1 of 2
Measurement Point: TOR
Constructed Well Depth (ft): 27.20
Measured Well Depth (ft): 28.92
Depth of Sediment (ft): NA

Screen Length (ft): 12.2 - 27.2 = 15'
Depth to Pump Intake (ft)[1]: 15'
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 3.5 Gal
Initial Depth to Water (ft): 6.63

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
8:57	454	7.25	.62	7.94	9.36	1.388	-322	29.75	4	0	0
9:02	681	10.34	3.71	7.83	10.02	1.305	-326	20.13	3	.60	
9:07	378	14.21	7.58	7.63	10.21	1.211	-333	24.37	6	1.5	
9:12		15.70	9.07	7.64	10.20	1.207	-333	29.37	5	2	
9:17		16.97	10.34	7.68	10.19	1.201	-334	43.20	9	2.5	
9:22		18.29	11.66	7.68	10.20	1.204	-335	45.73	23	3	
9:27		19.56	12.93	7.66	10.24	1.213	-335	47.85	38	3.5	1
9:32		21.06	14.43	7.67	10.34	1.217	-336	49.08	45	4	
9:37		22.47	15.84	7.68	10.44	1.219	-335	41.50	42	4.5	
9:42		23.70	17.07	7.68	10.41	1.216	-336	44.11	34	5	
9:47		25.13	18.53	7.68	10.38	1.218	-336	45.55	48	5.5	
9:52		26.17	19.54	7.68	10.47	1.215	-337	43.41	46	6	
9:57	↓	27.02	20.39	7.68	10.31	1.217	-336	41.59	23	6.5	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: _____
Rel. No.: _____

Date: 4/22/11
Personnel: _____

Monitoring Well Data:

Well No.: MW-7 2of2
Measurement Point: _____
Constructed Well Depth (ft): _____
Measured Well Depth (ft): _____
Depth of Sediment (ft): _____

Screen Length (ft): _____
Depth to Pump Intake (ft)[1]: _____
Well Diameter, D (in): _____
Well Screen Volume, V_s (mL)[2]: _____
Initial Depth to Water (ft): _____

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged*[4]
10:02	378	27.78	21.15	7.67	10.46	1.219	-336	44.23	63	7	2
10:07	378	28.02	21.39	7.68	10.38	1.241	-334	43.13	16	7.25	DRY
12:00		20.23	13.6								

Notes Well went dry then recharged prior to Sampling

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 5T6544 - 04

SITE/PROJECT NAME: GMCH

WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
04 12 22 11	04 12 22 11	13.5	17.3

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X= SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	I - PVC E - POLYETHYLENE		X= PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X= SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE	X= (SPECIFY)		X= SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	618.816 (m/ft)	GROUNDWATER ELEVATION	610.723 (m/ft)
DEPTH TO WATER	16.63 (m/ft)	WELL DEPTH	27.710 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 0-5 DIRECTION: NNE PRECIPITATION Y/N QUANTITY: Cloudy 50°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE SOP PROTOCOLS

4/22/11 DATE Jennifer Davide PRINT SIGNATURE

F&R MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21-0056546 Task 4

Date: 4/22/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-8
Measurement Point: TOR
Constructed Well Depth (ft): 16.3
Measured Well Depth (ft): 18.66
Depth of Sediment (ft): NA

Screen Length (ft): 11.3 - 16.3 = 5'
Depth to Pump Intake (ft)[1]: 14'
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 2.1
Initial Depth to Water (ft): 5.70

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
12:32	567	6.73	1.02	7.24	9.65	2.153	-341	56.35	1	0	0
12:37	264	7.13	2.03	7.45	9.14	2.539	-338	57.39	0	1.5	
12:42	227	7.10	2.00	7.37	9.16	2.512	-340	55.99	0	1.0	
12:47	227	7.72	2.02	7.30	9.16	2.068	-341	53.40	-1	1.4	
12:52	530	↓	↓	7.28	9.21	2.329	-342	55.54	-1	2.1	1
12:57	227			7.28	9.31	2.378	-343	56.73	-1	2.4	
1:02	302			7.27	9.40	2.384	-344	53.09	-1	2.8	
1:07	302			7.26	9.33	2.344	-344	54.25	-1	3.2	
1:12	302			7.26	9.38	2.319	-345	53.17	-1	3.6	
1:17	378			7.26	9.42	2.324	-345	53.81	-1	4.1	2
1:22	378			7.27	9.38	2.326	-345	52.22	-1	4.5	
1:27	378	↓	↓	7.26	9.39	2.327	-344	52.37	-1	4.9	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = \pi*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 516546 - 014

SITE/PROJECT NAME: GMCH

WELL# MW - 18

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITERS/GALLONS)	ACTUAL VOLUME PURGED (LITERS/GALLONS)
041211	041211	12	19

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT: DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT: DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE:	B	A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP	D - GAS LIFT PUMP; F - PURGE PUMP	G - BAILER; H - WATERRAS	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE:	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE:	E	A - TEFLON; B - STAINLESS STEEL	D - PVC; E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE:	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE:	E	A - TEFLON; B - TYGON	D - POLYPROPYLENE; E - POLYETHYLENE	F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE:	E	C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45:		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION:	610897 (m/ft)	GROUNDWATER ELEVATION:	610327 (m/ft)
DEPTH TO WATER:	5719 (m/ft)	WELL DEPTH:	11630 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µmhos) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmhos) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmhos) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmhos) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmhos) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED: 0-10 DIRECTION: NW PRECIPITATION Y/N QUALITY: Cloudy 50

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/22/11 DATE — Jennifer Davide PRINT — SIGNATURE

SMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21.0056546. Task 4

Date: 4/22/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-9
Measurement Point: TOR
Constructed Well Depth (ft): 15.47 (Plus 2' Stick up)
Measured Well Depth (ft): 17.10
Depth of Sediment (ft): NA

Screen Length (ft): 10-15' (5')
Depth to Pump Intake (ft)[1]: 12'
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 1.5 Gal.
Initial Depth to Water (ft): 7.43

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
10:33	302	8.32	.89	7.38	8.84	6.446	-338	26.37	3	0	
10:38	454	8.22	.79	7.33	8.65	6.624	-341	9.52	0	.46	
10:43	378	8.30	.87	7.26	8.83	6.977	-345	6.05	↓	1	
10:48	227	8.32	.89	7.19	8.91	7.078	-344	5.03		1.2	
10:53	↓	↓	↓	7.14	9.24	7.263	-343	2.46		1.5	1
10:58				7.10	9.31	7.286	-345	2.55		1.8	
11:03				7.09	9.43	7.301	-345	2.45		2	
11:08				7.08	9.53	7.297	-344	2.80		2.3	
11:13				7.08	9.47	7.267	-344	2.98		2.5	
11:18				7.09	9.48	7.239	-346	2.79		2.9	2
11:23				7.08	9.49	7.281	-345	2.81		3.3	
11:28				7.08	9.49	7.263	-345	2.84		3.6	

Notes.

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-04

SITE/PROJECT NAME: GMCH

WELL# MW-9

WELL PURGING INFORMATION

04/22/11	04/22/11	1.5	3.6
PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT DEDICATED Y (N) (CIRCLE ONE) SAMPLING EQUIPMENT DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: B — A - SUBMERSIBLE PUMP, B - PERISTALTIC PUMP, C - BLADDER PUMP, D - GAS LIFT PUMP, E - PURGE PUMP, F - DIPPER BOTTLE, G - BAILER, H - WATERRA® — X- ______ PURGING OTHER (SPECIFY)

SAMPLING DEVICE: B — X- ______ SAMPLING OTHER (SPECIFY)

PURGING DEVICE: E — A - TEFLON, B - STAINLESS STEEL, C - POLYPROPYLENE, D - PVC, E - POLYETHYLENE — X- ______ PURGING OTHER (SPECIFY)

SAMPLING DEVICE: E — X- ______ SAMPLING OTHER (SPECIFY)

PURGING DEVICE: E — A - TEFLON, B - TYGON, C - ROPE, X- ______ (SPECIFY), D - POLYPROPYLENE, E - POLYETHYLENE, F - SILICONE, G - COMBINATION TEFLON/POLYPROPYLENE — X- ______ PURGING OTHER (SPECIFY)

SAMPLING DEVICE: E — X- ______ SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 ______ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	606.90 (m/ft)		GROUNDWATER ELEVATION	597.47 (m/ft)
DEPTH TO WATER	7.43 (m/ft)		WELL DEPTH	15.42 (m/ft)

pH (std)	TURBIDITY (ntu)	CONDUCTIVITY (µmhos/cm) AT 25°C	ORP (mV)	DO (mg/L)	SAMPLE TEMPERATURE (°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR None COLOR Clear TURBIDITY Clear

WEATHER CONDITIONS WIND SPEED 0-15 DIRECTION WNE PRECIPITATION Y/N OUTLOOK Cloudy 50°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/22/11 Jennifer Dwude [signature]

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21-0056546 Task4

Date: 4/21/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-10
Measurement Point: TOR
Constructed Well Depth (ft): 21.3
Measured Well Depth (ft): 23.63
Depth of Sediment (ft): NA

Screen Length (ft): 12.5-21.3=8.8'
Depth to Pump Intake (ft)[1]: 16'
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 1.7 Gal
Initial Depth to Water (ft): 12.87

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
3:14	567	14.01	1.14	7.08	15.75	0.015	-326	26.43	31	0	0
3:19	189	13.86	.99	7.13	9.98	3.121	-333	20.67	21	.75	
3:24				7.10	10.21	3.462	-334	19.30	10	1	
3:29				7.08	10.28	3.733	-335	18.11	4	1.25	
3:34				7.06	10.23	4.736	-335	12.10	2	1.5	
3:39				7.01	10.29	5.645	-337	10.19	2	1.75	1
3:44				6.98	10.31	6.066	-336	7.39	0	2	
3:49				6.99	10.28	6.219	-337	5.57	0	2.25	
3:54				6.98	10.26	6.222	-338	4.81	0	2.5	
3:59				6.98	10.29	6.219	-337	4.64	0	2.75	
4:04				6.99	10.28	6.220	-336	4.79	0	3	
4:09	↓	↓	↓	6.98	10.29	6.218	-337	4.83	0	3.25	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 565461-614

SITE/PROJECT NAME: _____

WELL# MW-110

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
04 21 11	04 21 11	1.7	3.3

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT ... DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQIPMENT ... DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: B — A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRAS; X- _____ PURGING OTHER (SPECIFY)

SAMPLING DEVICE: B — A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRAS; X- _____ SAMPLING OTHER (SPECIFY)

PURGING DEVICE: E — A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X- _____ PURGING OTHER (SPECIFY)

SAMPLING DEVICE: E — A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X- _____ SAMPLING OTHER (SPECIFY)

PURGING DEVICE: E — A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X- _____ (SPECIFY) PURGING OTHER (SPECIFY)

SAMPLING DEVICE: E — A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X- _____ (SPECIFY) SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45: [ ] A - IN-LINE DISPOSABLE; B - PRESSURE; C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	610.479 (m/ft)	GROUNDWATER ELEVATION	591.183 (m/ft)
DEPTH TO WATER	11.287 (m/ft)	WELL DEPTH	12.130 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µmho/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Yellow/Clear TURBIDITY: Cleared up

WEATHER CONDITIONS: WIND SPEED: 0-5 DIRECTION: ENE PRECIPITATION Y/N OUTLOOK: Cloudy 49°

SPECIFIC COMMENTS: _____

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE SAP PROTOCOLS

4/21/11 Jennifer Davide

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21.0056546 Task 6

Date: 4/21/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-11 1 of 2
Measurement Point: TOR
Constructed Well Depth (ft): 24.10
Measured Well Depth (ft): 25.10
Depth of Sediment (ft): NA

Screen Length (ft): 9-21.4 (15.1')
Depth to Pump Intake (ft)[1]: 18
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 3.17 Gal
Initial Depth to Water (ft): 5.29

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
9:30	303	6.00	.71	6.91	7.56	0.173	-328	25.09	1	0	0
9:35	227	6.04	.75	7.59	7.06	0.978	-318	10.89	4	.4	
9:40	↓	↓	↓	7.54	7.04	0.887	-321	9.38	3	.7	
9:45				7.55	7.04	0.886	-322	7.74	2	1	
9:50				7.54	7.02	0.885	-323	6.69	1	1.3	
9:55				7.58	7.16	0.895	-324	7.00	0	1.6	
10:00				7.59	7.37	0.916	-325	15.0	↓	1.9	
10:05				7.60	7.34	0.913	-326	13.4		2.2	
10:10				7.61	7.31	0.896	-325	17.91		2.5	
10:15				7.66	7.54	0.940	-325	16.13		2.8	
10:20				7.60	7.43	0.924	-325	18.20		3.1	1
10:25				7.57	7.49	0.919	-325	18.66		3.4	
10:30	↓	↓	↓	7.58	7.44	0.908	-325	19.41	↓	3.7	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length: $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: ______________________
Ref. No.: ______________________

Date: ______________________
Personnel: ______________________

Monitoring Well Data:

Well No.: MW-11   2 of 2
Measurement Point: ______________________
Constructed Well Depth (ft): ______________________
Measured Well Depth (ft): ______________________
Depth of Sediment (ft): ______________________

Screen Length (ft): ______________________
Depth to Pump Intake (ft)[1]: ______________________
Well Diameter, D (in): ______________________
Well Screen Volume, V_s (mL)[2]: ______________________
Initial Depth to Water (ft): ______________________

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level[3] (ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged[4]*
10:35	227	6.04	.75	7.57	7.45	0.309	-325	19.69	0	4	
10:40	↓	↓	↓	7.56	7.45	0.301	-325	19.87	↓	4.3	
10:45				7.56	7.46	0.307	-325	19.88		4.6	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-04

SITE/PROJECT NAME: GMCH

WELL# MW-11

WELL PURGING INFORMATION

04/21/11	04/21/11	3.1	4.6
PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT ... DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT ... DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - BLADDER PUMP	D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	G - BAILER H - WATERRA®	X- ___ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B				X- ___ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE	D - PVC E - POLYETHYLENE		X- ___ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E				X- ___ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON C - ROPE	D - POLYPROPYLENE E - POLYETHYLENE X- ___ (SPECIFY)	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- ___ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E				X- ___ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	590.10	(m/ft)	GROUNDWATER ELEVATION	584.81	(m/ft)
DEPTH TO WATER	5.29	(m/ft)	WELL DEPTH	24.10	(m/ft)

pH (std)	TURBIDITY (ntu)	CONDUCTIVITY (µmhos/cm) AT 25°C	ORP (mV)	DO (mg/L)	SAMPLE TEMPERATURE (°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 0-5 DIRECTION NNE PRECIPITATION Y/N OUTLOOK Cloudy 48

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/21/11 — Jennifer Davide — [signature]

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21.0056546 Task 4

Date: 4/20/11 Sample 10:00
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-12
Measurement Point: TOR
Constructed Well Depth (ft): 15.1
Measured Well Depth (ft): 16.3
Depth of Sediment (ft): NA

Screen Length (ft): 8-15.1 = 7.1'
Depth to Pump Intake (ft)[1]: 10'
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 10.4x.16= 1.6 Gal
Initial Depth to Water (ft): 5.90

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
9:10		6.10	.20	6.51	9.15	7.87	-5	1	111	0	0
9:15	378	6.32	.42	6.72	8.72	7.26	-47	.45	39	1/2	
9:20		6.29	.39	6.82	8.83	6.35	-55	0	47		
9:25				6.83	8.82	6.32	-61	0	16	1 1/2	1
9:30				6.84	8.83	6.31	-66	0	6	2	
9:35				6.87	8.83	6.32	-65	0	2	2 1/2	
9:40				6.86	8.82	6.32	-67	0	0	3	2
9:45				6.87	8.82	6.33	-64	0	0	3 1/2	
9:50	↓	↓	↓	6.87	8.83	6.32	-65	0	0	4	2.5

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-04

SITE/PROJECT NAME: GMCH

WELL# MW-12

WELL PURGING INFORMATION

04/20/11	04/20/11	16	40
PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT ... DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT ... DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP / B - PERISTALTIC PUMP / C - BLADDER PUMP	D - GAS LIFT PUMP / E - PURGE PUMP / F - DIPPER BOTTLE	G - BAILER / H - WATERRA®	X- ______ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B				X- ______ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON / B - STAINLESS STEEL / C - POLYPROPYLENE	D - PVC / E - POLYETHYLENE		X- ______ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E				X- ______ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON / B - TYGON / C - ROPE X- ______ (SPECIFY)	D - POLYPROPYLENE / E - POLYETHYLENE	F - SILICONE / G - COMBINATION TEFLON/POLYPROPYLENE	X- ______ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E				X- ______ SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	590.71	(m/ft)	GROUNDWATER ELEVATION	584.78	(m/ft)
DEPTH TO WATER	5.90	(m/ft)	WELL DEPTH	15.10	(m/ft)

pH (std)	TURBIDITY (ntu)	CONDUCTIVITY (µmho/cm) AT 25°C	ORP (mV)	DO (mg/L)	SAMPLE TEMPERATURE (°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: No COLOR: Yellow→Clear TURBIDITY: Cleared up

WEATHER CONDITIONS: WIND SPEED 10-15 DIRECTION WSW PRECIPITATION (Y)/N OUTLOOK Rain 43°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE FMG PROTOCOLS

4/20/11 Jennifer Davide [signature]

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-11
Revision 3, October 29, 2007

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21-0056546 Task 4

Date: 4/21/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-13 (MS/MSD)
Measurement Point: TOR
Constructed Well Depth (ft): 15'
Measured Well Depth (ft): 14.04
Depth of Sediment (ft): .96'

Screen Length (ft): 8-15' = 7'
Depth to Pump Intake (ft)[1]: 10'
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 1.47 Gal
Initial Depth to Water (ft): 4.85

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
11:17	378	5.40	.55	7.54	9.12	0.677	-336	23.6	11	0	0
11:22	↓	5.29	.44	7.44	7.76	5.276	-335	3.15	13	1/2	
11:27		5.32	.47	7.43	7.61	5.241	-335	5.21	2	1	
11:32		↓	↓	7.44	7.80	5.282	-335	4.06	4	1 1/2	1
11:37				7.43	7.77	5.099	-336	3.93	6	2	
11:42				7.43	7.72	5.069	-336	3.92	-2	2 1/2	
11:47				7.42	7.66	5.024	-336	3.81	1	3	2
11:52				7.42	7.67	5.021	-335	3.87	1	3 1/2	
11:57				7.42	7.64	5.023	-336	3.91	1	4	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 565416 - 04

SITE/PROJECT NAME: GMCH

WELL# MW-13

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
04 21 11	04 21 11	11.5	40

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT DEDICATED: Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	F - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE	E	C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	1589.92 (m/ft)	GROUNDWATER ELEVATION	1584.17 (m/ft)
DEPTH TO WATER	4.85 (m/ft)	WELL DEPTH	11.50 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µmS/cm) AT 25°C	(mV)	(%)	(°C)
(std)	(ntu)	(µmS/cm) AT 25°C	(mV)	(%)	(°C)
(std)	(ntu)	(µmS/cm) AT 25°C	(mV)	(%)	(°C)
(std)	(ntu)	(µmS/cm) AT 25°C	(mV)	(%)	(°C)
(std)	(ntu)	(µmS/cm) AT 25°C	(mV)	(%)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOUR: Yellow/clear TURBIDITY: cleared up

WEATHER CONDITIONS: WIND SPEED: 0-5 DIRECTION: ENE PRECIPITATION Y (N) AMOUNT: Cloudy 4°C

SPECIFIC COMMENTS

MS/MSD

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/21/11 Jennifer Davide

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21-0056546 Task4

Date: 4/21/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-14
Measurement Point: TOR
Constructed Well Depth (ft): 19.1
Measured Well Depth (ft): 21.32
Depth of Sediment (ft): NA

Screen Length (ft): 9.1-19.1 = 10'
Depth to Pump Intake (ft)[1]: 12'
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 2.67 Gal
Initial Depth to Water (ft): 4.46

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level[3] (ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged[4]*
1:35	567	5.64	1.18	7.74	8.08	3.586	-334	23.64	4	0	0
1:40	416	7.60	3.14	7.58	7.41	3.439	-332	25.90	2	.75	
1:45	227	9.67	5.21	7.53	7.23	3.413	-332	28.32	3	1.3	
1:50	↓	9.80	5.34	7.48	7.49	3.438	-332	32.27	0	1.6	
1:55		9.84	5.38	7.48	7.36	3.441	-333	31.09	0	1.9	
2:00		↓	↓	7.46	7.56	3.473	-334	28.27	0	2.2	
2:05				7.45	7.67	3.807	-334	28.57	0	2.5	
2:10				7.44	7.70	3.730	-335	28.34	0	2.8	1
2:15				7.44	7.71	3.786	-335	28.29	0	3.1	
2:20				7.45	7.69	3.756	-335	28.36	0	3.4	
2:25				7.45	7.71	3.781	-336	28.31	0	3.7	
2:30				7.44	7.70	3.774	-336	28.29	0	4	
2:35	↓	↓		7.45	7.72	3.779	-335	28.27	0	4.3	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. V_s=p*(D/2)^2*(5*12)*(2.54)^3

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 516546 - 04

SITE/PROJECT NAME: GMCH

WELL# MW-114

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
041211	041211	12.6	43

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: [B] A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®; X- PURGING OTHER (SPECIFY)

SAMPLING DEVICE: [B] (same codes); X- SAMPLING OTHER (SPECIFY)

PURGING DEVICE: [E] A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X- PURGING OTHER (SPECIFY)

SAMPLING DEVICE: [E] (same codes); X- SAMPLING OTHER (SPECIFY)

PURGING DEVICE: [E] A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X- (SPECIFY); X- PURGING OTHER (SPECIFY)

SAMPLING DEVICE: [E] (same codes); X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45: [ ] A - IN-LINE DISPOSABLE; B - PRESSURE; C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION (m/ft)	579.717	GROUNDWATER ELEVATION (m/ft)	578.831
DEPTH TO WATER (m/ft)	14.16	WELL DEPTH (m/ft)	12.33

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µs/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µs/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µs/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µs/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µs/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED: 0-5 DIRECTION: NNE PRECIPITATION Y/N OUTLOOK: Cloudy 4°C

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE 4/12/11 PRINT Jennifer Dawdle SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.: 21-0056546 Task 4

Date: 4/21/11
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-15
Measurement Point: TOR
Constructed Well Depth (ft): 17.90
Measured Well Depth (ft): 16.83
Depth of Sediment (ft): 1.07

Screen Length (ft): 8-15 = 7' feet
Depth to Pump Intake (ft)[1]: 10 feet
Well Diameter, D (in): 2 in.
Well Screen Volume, V_s (mL)[2]: 1.56 Gal
Initial Depth to Water (ft): 7.05

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
8:33	378	7.79	.74	6.36	7.52	2.204	-323	27.5	4	0	
8:38	↓	7.92	.87	6.61	7.63	2.246	-325	27.9	0	1/2	
8:43		↓	↓	6.73	7.70	2.302	-327	30.11	0	1	
8:48				6.79	7.72	2.299	-327	29.61	0	1 1/2	1
8:53				6.82	7.74	2.295	-327	29.56	0	2	
8:58				6.84	7.73	2.294	-328	29.07	0	2 1/2	
9:03				6.83	7.73	2.293	-328	28.22	0	3	2
9:08				6.84	7.71	2.294	-328	28.03	0	3 1/2	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length. $V_s = p^*(D/2)^{2*}(5^*12)^*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs

WELL PURGING FIELD INFORMATION FORM

JOB# 565461-04

SITE/PROJECT NAME: GMCH

WELL# MW-15

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
04/21/11	04/21/11	1.5	3.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X-	PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	F - PURGE PUMP	H - WATERRAM		
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X-	SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - PVC		X-	PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE			
SAMPLING DEVICE	E	C - POLYPROPYLENE			X-	SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X-	PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE		
SAMPLING DEVICE	G	C - ROPE	X- (SPECIFY)		X-	SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM		

FIELD MEASUREMENTS

WELL ELEVATION	591.94	(m/ft)	GROUNDWATER ELEVATION	581.99	(m/ft)
DEPTH TO WATER	7.05	(m/ft)	WELL DEPTH	11.79	(m/ft)

	pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
	(std)	(ntu)	(µmicro) AT 25°C	(mV)	(mg/L)	(°C)
	(std)	(ntu)	(µmicro) AT 25°C	(mV)	(mg/L)	(°C)
	(std)	(ntu)	(µmicro) AT 25°C	(mV)	(mg/L)	(°C)
	(std)	(ntu)	(µmicro) AT 25°C	(mV)	(mg/L)	(°C)
	(std)	(ntu)	(µmicro) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED: B-5 DIRECTION: NNE PRECIPITATION Y/N OUTLOOK: Cloudy 45°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE SAMPLING PROTOCOLS

DATE: 4/21/11 PRINT: Jennifer Davide SIGNATURE: Jennifer Davide

EMC MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jen Davide	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-12282-2164.2
Client Contact: Mr. Christopher Boron	Phone: 716 570 5983	E-Mail: denise.giglia@testamericainc.com		Page: Page 2 of 2
Company: GZA GeoEnvironmental, Inc.				Job #:

Address: 535 Washington Street 11th Floor	Due Date Requested:
City: Buffalo	TAT Requested (days):
State, Zip: NY, 14203	
Phone: 716 635-2300	PO #: Purchase Order Requested
Email: christopher.boron@gza.com	WO #:
Project Name: GM-Lockport Groundwater Sampling	Project #: 48004014
Site: GMCH	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - (MOD) Local Method	6010B - (MOD) TAL Metals ICP	8260B - (MOD) TCL list OLM04.2	9060 - (MOD) Local Method	RSK_175 - (MOD) Local Method	SM4500_S2_F - Sulfide	2320B - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	A	A	CB	N		
MW-12	4/20/11	1000	G	Water	N	N	X	X	X	X	X	X	X		
				Water											
				Water											

Preservation **Codes:**

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/20/11 1145	Company	Received by:	Date/Time: 4/20/11 1145	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jen Davide	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-12282-2164.1
Client Contact: Mr. Christopher Boron	Phone: (716) 570-5983	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: GZA GeoEnvironmental, Inc.				Job #: 21.0056546 Task 4
Address: 535 Washington Street 11th Floor	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14203				
Phone: 844-7046	PO #: Purchase Order Requested			
Email: christopher.boron@gza.com	WO #:			
Project Name: GM-Lockport Groundwater Sampling	Project #: 48004014			
Site: GMCH	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - (MOD) Local Method	6010B - (MOD) TAL Metals ICP	8260B - (MOD) TCL list OLM04.2	9060 - (MOD) Local Method	RSK_175 - (MOD) Local Method	SM4500_S2_F - Sulfide	2320B - Alkalinity, Total	Ammonia 350.1	Nitrate - Nitrite					Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	A	A	CB	N								
MW-15	4/21/11	9:10	G	Water	N		X	X	X	X	X	X	X	X	X					16	
MW-11	4/21/11	10:50	G	Water	N		X	X	X	X	X	X	X	X	X					16	
MW-13 (MS/MSD)	4/21/11	12:00	G	Water		X	X	X	X	X	X	X	X	X	X					24	MS / MSD
MW-14	4/21/11	14:45	G	Water	N		X	X	X	X	X	X	X	X	X					16	
MW-10	4/21/11	16:10	G	Water	N		X	X	X	X	X	X	X	X	X					16	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/21/11 1645			4/21/11 1645	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Mr. Christopher Boron
Company: GZA GeoEnvironmental, Inc.
Address: 535 Washington Street 11th Floor
City: Buffalo
State, Zip: NY, 14203
Phone: 844-7046
Email: christopher.boron@gza.com
Project Name: GM-Lockport Groundwater Sampling
Site: GMCH

Sampler: Jen Davide
Phone: (716) 570-5983
Lab PM: Giglia, Denise
E-Mail: denise.giglia@testamericainc.com
Carrier Tracking No(s):
COC No: 480-12282-2164.1
Page: Page 1 of 2
Job #: 21-0056546 Task4

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48004014
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - (MOD) Local Method	6010B - (MOD) TAL Metals ICP	8260B - (MOD) TCL list OLM04.2	9060 - (MOD) Local Method	RSK_175 - (MOD) Local Method	SM4500_S2_F - Sulfide	2320B - Alkalinity, Total	Ammonia 350.1 Nitrate - Nitrite						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	A	A	CB	N								
MW-9	4/22/11	1115	G	Water	N		X	X	X	X	X	X	X	X	X					16	
MW-7	4/22/11	1200	G	Water	N		X	X	X	X	X	X	X	X	X					16	
MW-8	4/22/11	1330	G	Water	N		X	X	X	X	X	X	X	X	X					16	
DUP	4/22/11	1230	G	Water	N		X	X	X	X	X	X	X	X	X					16	
MW-4	4/22/11	1550	G	Water	N		X	X	X	X	X	X	X	X	X					16	
Blank				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	4/22/11 1625			4/22/11 1625	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Form FMG 8.0-01

INSTRUMENT CALIBRATION RECORD

PROJECT: GMCH
LOCATION: Lockport, NY
CLIENT:
PROJECT MANAGER: Chris Baran
FIELD REP.: Jen Davide
DATE: April 2011

Instrument	Date Calibrated	By	Standard Used	Decontamination, Maintenance, or Repair Performed	Remarks
Horiba U-22	4/19/11	JMD	Cal. Solution	cleaning and calibration	
YSI	4/20/11	JMD	Cal Solution	calibration	
YSI	4/21/11	JMD	Cal Solution	cleaning and calibration	
YSI	4/22/11	JMD	Cal Solution	cleaning and calibration	

Other Remarks:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

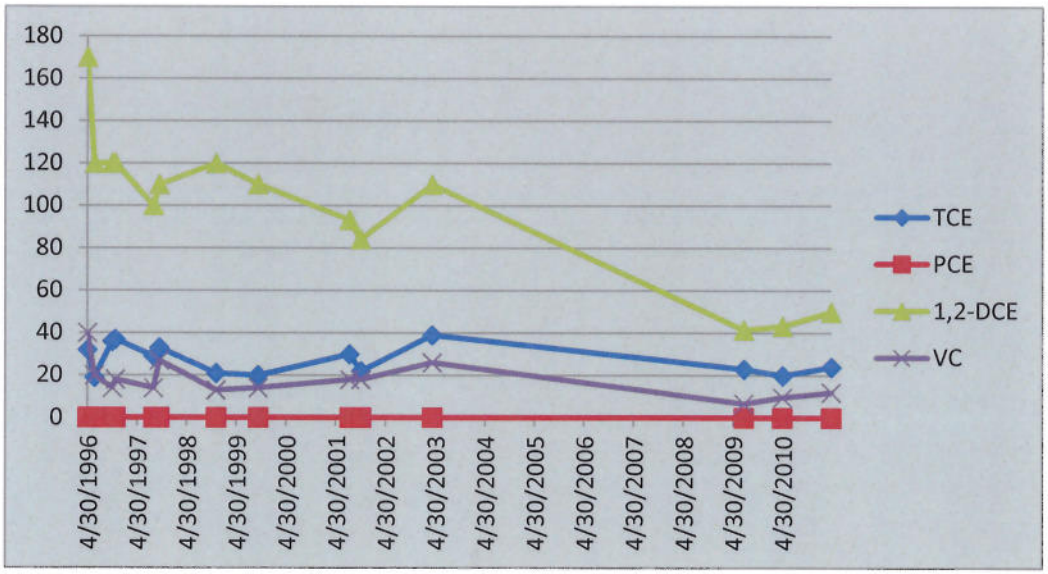
APPENDIX B

GRAPHS OF MONITORING WELL ANALYTICAL DATA FOR THE COCs

MW-4 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
4/30/1996	**32**	<0.5	**170**	**40**
6/20/1996	**19**	<0.5	**120**	**20**
10/30/1996	**36**	<0.5	**120**	**14**
11/21/1996	**37**	<0.5	**120**	**18**
8/28/1997	**29**	<0.5	**100**	**14**
10/10/1997	**33**	<0.2	**110**	**27**
12/2/1998	**21**	<0.2	**120**	**13**
10/7/1999	**20**	<0.05	**110.14**	**14**
8/9/2001	**30**	0.003	**93.28**	**18**
10/31/2001	**22**	<0.002	**84.25**	**18**
4/7/2003	**39**	**0.08**	**110**	**26**
7/20/2009	**23**	<0.05	**41.5**	**6.7**
4/29/2010	**20**	0.0012	**43.2**	**9.6**
4/22/2011	**24**	0.0018	**50**	**12**

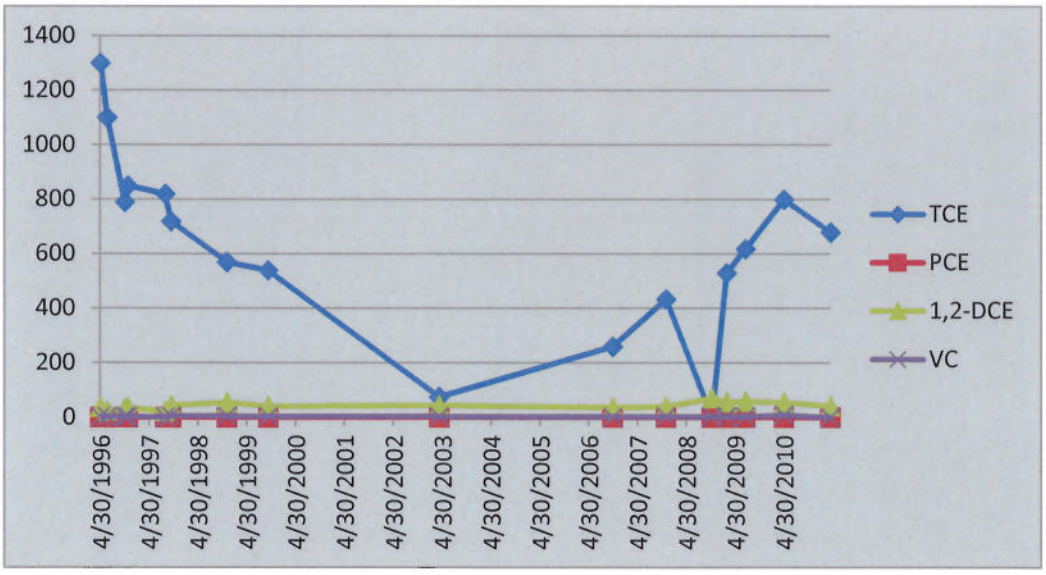
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria
Duplicate samples were collected from this location on 6/20/96, 10/30/96 and 12/2/98.
The higher of the two concentrations were recorded in this graph.



MW-7 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
4/30/1996	**1300**	<0.5	**37**	**1.8**
6/20/1996	**1100**	<0.5	**24**	**2.4**
10/30/1996	**790**	<0.5	**32**	**2.3**
11/21/1996	**850**	<0.5	**35**	**3.1**
8/28/1997	**820**	<0.2	**22**	**1.1**
10/10/1997	**720**	<0.2	**43**	**4.8**
12/3/1998	**570**	<0.2	**55**	**4.2**
10/7/1999	**540**	<0.5	**41**	**3.5**
4/7/2003	**75**	<0.2	**45**	**3**
10/25/2006	**260**	**0.077**	**36**	**1.7**
11/29/2007	**434**	**0.049**	**40**	**3.2**
11/5/2008	**1.1**	<0.2	**70**	**2.6**
2/24/2009	**530**	**0.071**	**56**	**3.6**
7/15/2009	**618**	**0.112**	**58.3**	**2.5**
4/29/2010	**800**	**0.14**	**55.2**	**9**
4/11/2011	**680**	<1.8	**42**	<4.5

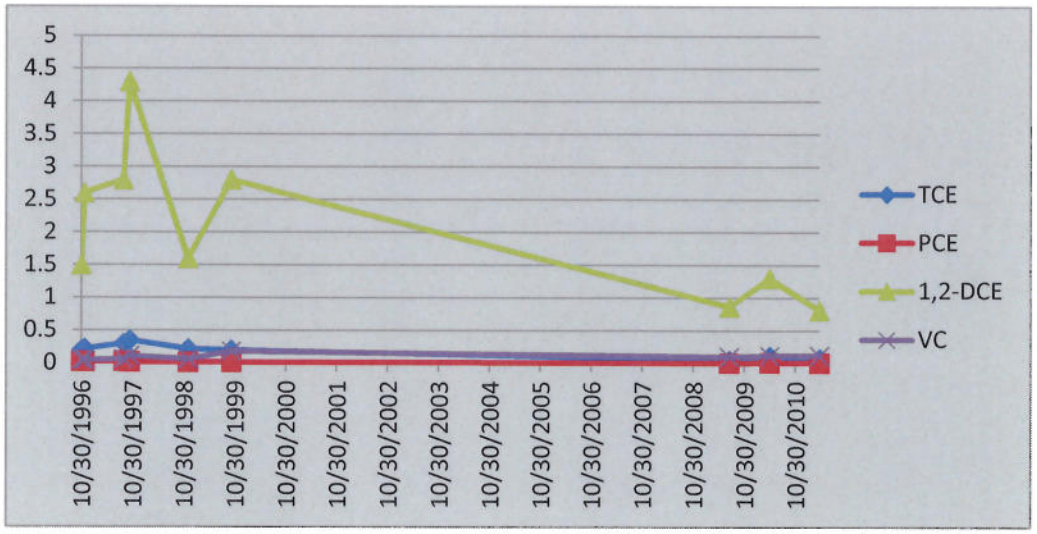
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria



MW-8 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
10/30/1996	**0.2**	**0.024**	**1.5**	**0.047**
11/21/1996	**0.22**	**0.022**	**2.6**	**0.049**
8/28/1997	**0.3**	**0.028**	**2.8**	**0.062**
10/10/1997	**0.35**	**0.018**	**4.3**	**0.11**
12/2/1998	**0.22**	**0.012**	**1.6**	**0.062**
10/7/1999	**0.2**	**0.011**	**2.802**	**0.18**
7/15/2009	**0.05**	0.005	**0.865**	**0.1**
4/30/2010	**0.11**	**0.013**	**1.3**	**0.12**
4/22/2011	**0.078**	**0.0077**	**0.813**	**0.12**

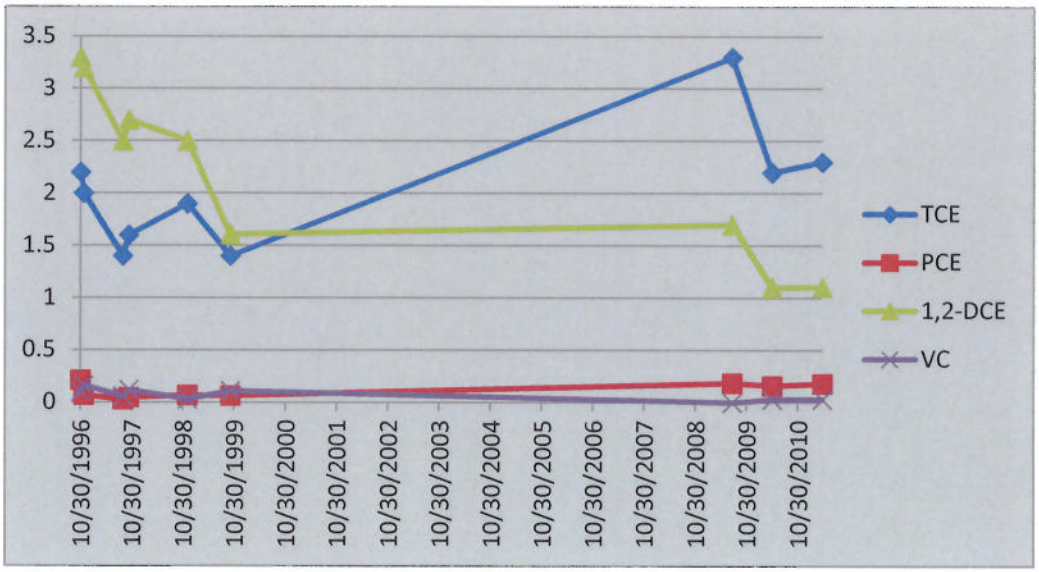
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria



MW-9 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
10/30/1996	**2.2**	**0.21**	**3.3**	**0.1**
11/21/1996	**2**	**0.07**	**3.2**	**0.16**
8/28/1997	**1.4**	**0.027**	**2.5**	**0.056**
10/10/1997	**1.6**	**0.047**	**2.7**	**0.12**
12/2/1998	**1.9**	**0.066**	**2.5**	**0.03**
10/5/1999	**1.4**	**0.062**	**1.608**	**0.11**
7/20/2009	**3.3**	**0.186**	**1.7**	<0.05
4/30/2010	**2.2**	**0.16**	**1.1**	**0.031**
4/22/2011	**2.3**	**0.18**	**1.105**	**0.032**

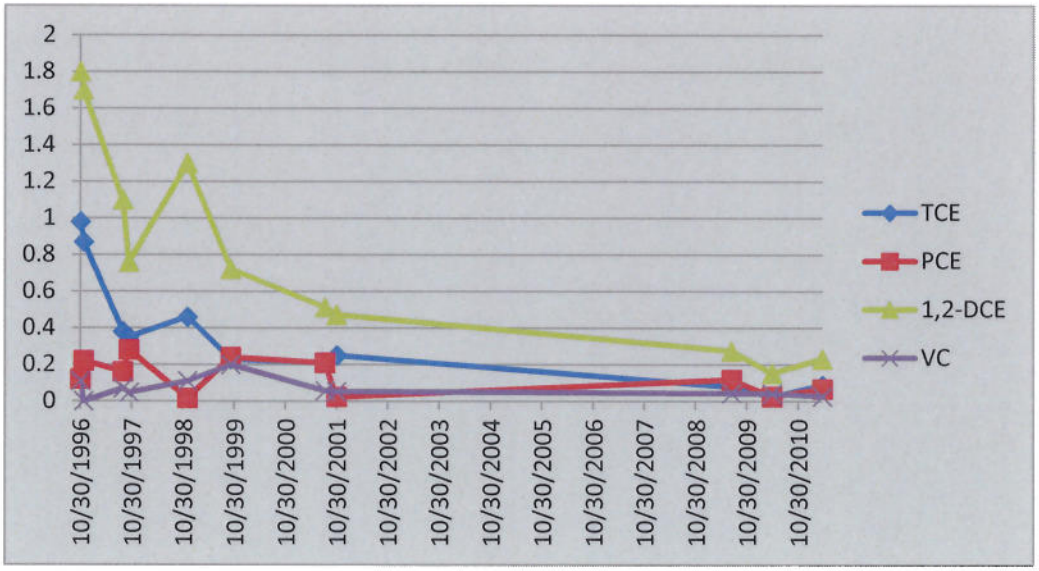
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria
Duplicate samples were collected from this location on 11/21/96 and 10/5/99. The higher of the two concentrations were recorded in this graph.



MW-10 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
10/30/1996	**0.98**	**0.12**	**1.8**	**0.11**
11/21/1996	**0.87**	**0.22**	**1.7**	<0.1
8/28/1997	**0.38**	**0.16**	**1.1**	**0.07**
10/10/1997	**0.35**	**0.28**	**0.76**	**0.047**
12/1/1998	**0.46**	**0.016**	**1.3**	**0.11**
10/6/1999	**0.23**	**0.24**	**0.722**	**0.2**
8/9/2001	**0.21**	**0.21**	**0.514**	**0.057**
10/31/2001	**0.25**	**0.023**	**0.473**	**0.053**
7/15/2009	**0.079**	**0.118**	**0.275**	**0.044**
4/28/2010	**0.024**	**0.026**	**0.153**	**0.042**
4/21/2011	**0.088**	**0.067**	**0.232**	**0.027**

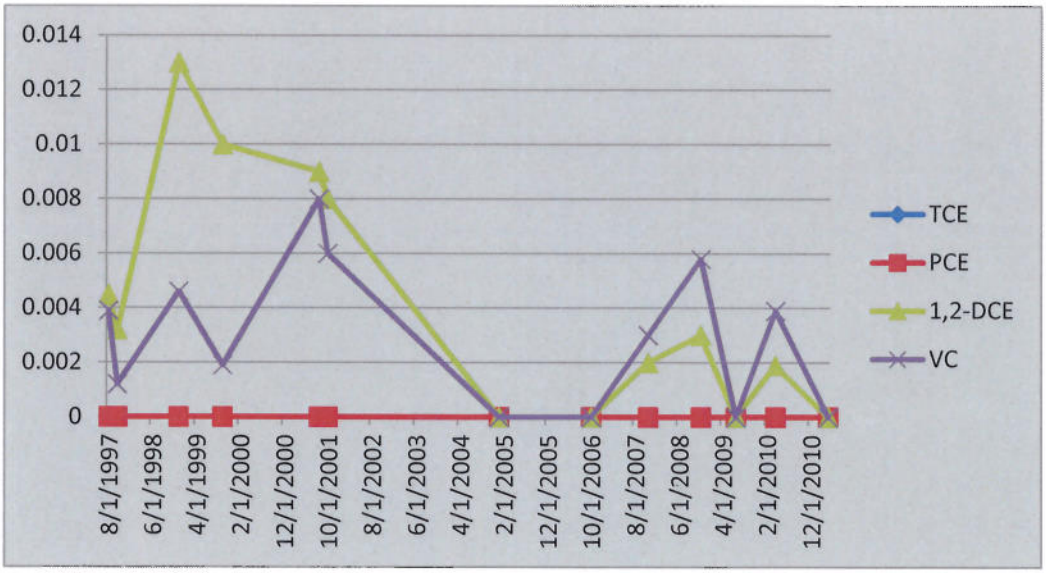
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria



MW-11 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
8/28/1997	<0.0005	<0.0005	0.0045	**0.0039**
10/10/1997	<0.0005	<0.0005	0.0032	0.0012
12/1/1998	<0.0005	<0.0005	**0.013**	**0.0046**
10/5/1999	<0.0005	<0.0005	**0.01**	0.0019
8/8/2001	<0.002	<0.002	**0.009**	**0.008**
10/30/2001	<0.002	<0.002	**0.008**	**0.006**
1/12/2005	<0.002	<0.002	<0.002	<0.002
10/24/2006	<0.002	<0.002	<0.002	<0.002
11/28/2007	<0.002	<0.002	0.002	**0.003**
11/4/2008	<0.002	<0.002	0.003	**0.0058**
7/16/2009	<0.005	<0.005	<0.005	<0.005
4/28/2010	<0.0005	<0.0004	0.0019	**0.0039**
4/21/2011	<0.0005	<0.0004	<0.0008	<0.0009

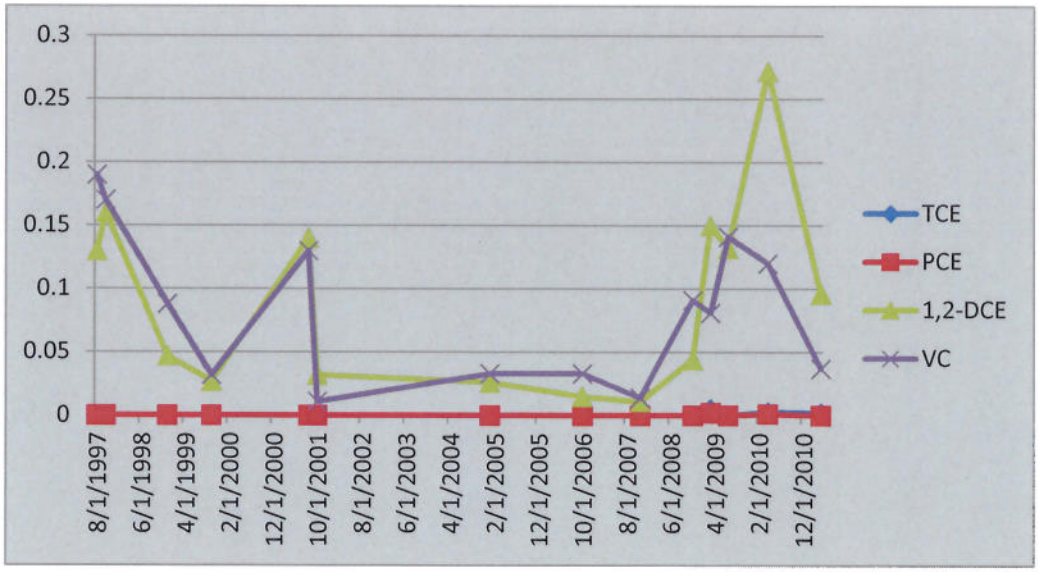
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria
Duplicate samples were collected from this location on 10/10/97. The higher of the two concentrations were recorded in this graph.



MW-12 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
8/28/1997	<0.0005	<0.0005	**0.13**	**0.19**
10/10/1997	<0.0005	<0.0005	**0.16**	**0.17**
12/1/1998	<0.0005	<0.0005	**0.047**	**0.088**
10/6/1999	<0.0005	<0.0005	**0.027**	**0.032**
8/8/2001	<0.002	<0.002	**0.14**	**0.13**
10/30/2001	<0.002	<0.002	**0.032**	**0.011**
1/12/2005	<0.002	<0.002	**0.026**	**0.033**
10/25/2006	<0.002	<0.002	**0.015**	**0.033**
11/28/2007	<0.002	<0.002	**0.011**	**0.014**
11/14/2008	<0.002	<0.002	**0.044**	**0.091**
3/16/2009	0.005	0.002	**0.15**	**0.081**
7/16/2009	<0.005	<0.005	**0.132**	**0.141**
4/28/2010	0.0028	0.0011	**0.272**	**0.12**
4/20/2011	0.0021	<0.0004	**0.096**	**0.037**

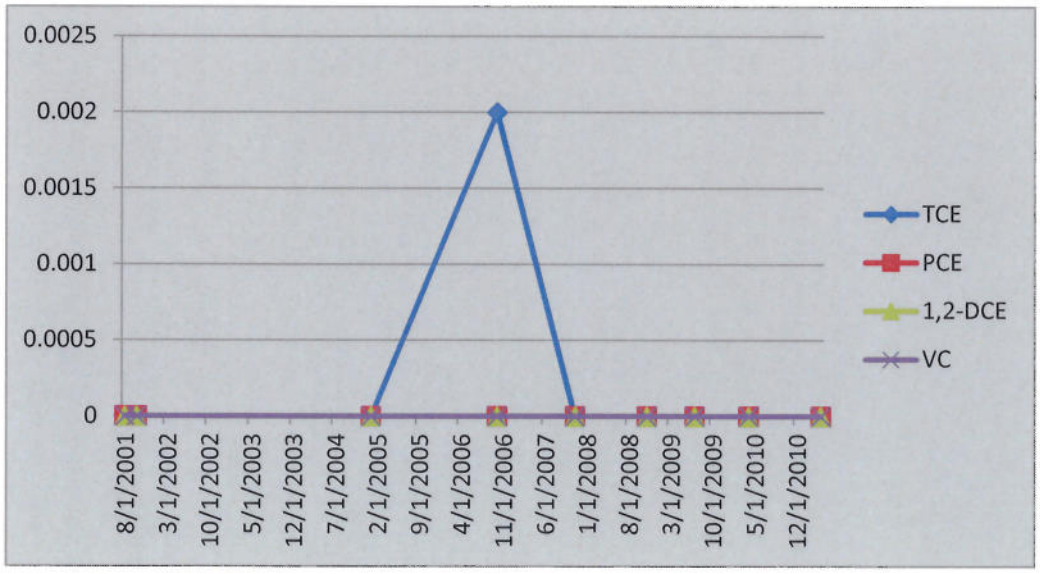
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria
Duplicate samples were collected from this location on 8/28/97 and 8/8/01. The higher of the two concentrations were recorded in this graph.



MW-13 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
8/8/2001	<0.002	<0.002	<0.002	<0.002
10/29/2001	<0.002	<0.002	<0.002	<0.002
1/12/2005	<0.002	<0.002	<0.002	<0.002
10/24/2006	0.002	<0.002	<0.002	<0.002
11/28/2007	<0.002	<0.002	<0.002	<0.002
11/5/2008	<0.002	<0.002	<0.002	<0.002
7/16/2009	<0.005	<0.005	<0.005	<0.005
4/28/2010	<0.0005	<0.0004	<0.0008	<0.0009
4/21/2011	<0.0005	<0.0004	<0.0008	<0.0009

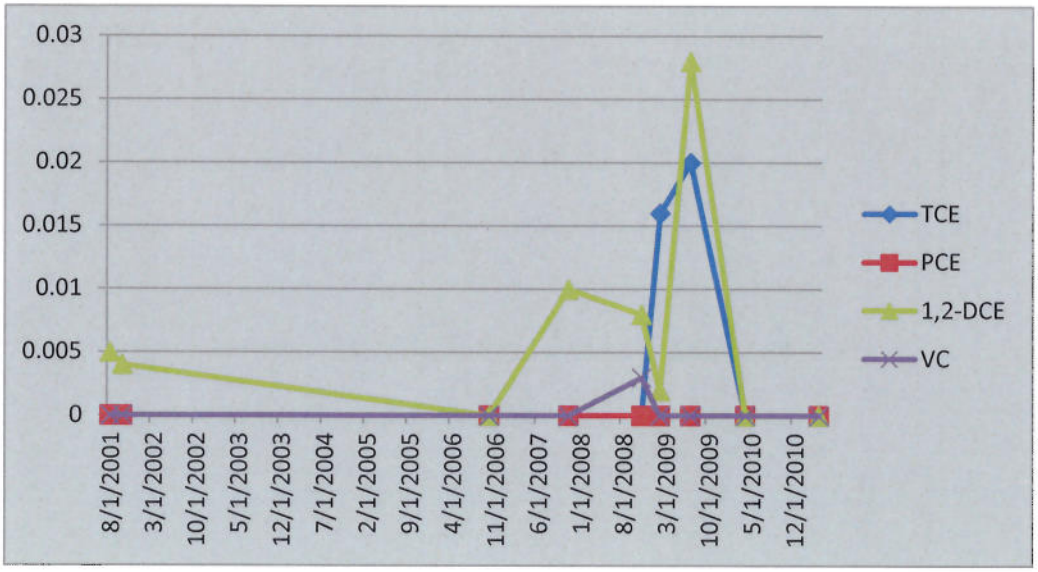
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria



MW-14 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
8/10/2001	<0.002	<0.002	0.005	<0.002
10/30/2001	<0.002	<0.002	0.004	<0.002
10/24/2006	<0.002	<0.002	<0.002	<0.002
11/29/2007	<0.002	<0.002	**0.01**	<0.002
11/4/2008	<0.002	<0.002	**0.008**	**0.003**
2/24/2009	**0.016**	<0.002	0.002	<0.002
7/19/2009	**0.02**	<0.005	**0.028**	<0.005
4/27/2010	<0.005	<0.0004	<0.0008	<0.0009
4/21/2011	<0.005	<0.0004	<0.0008	<0.0009

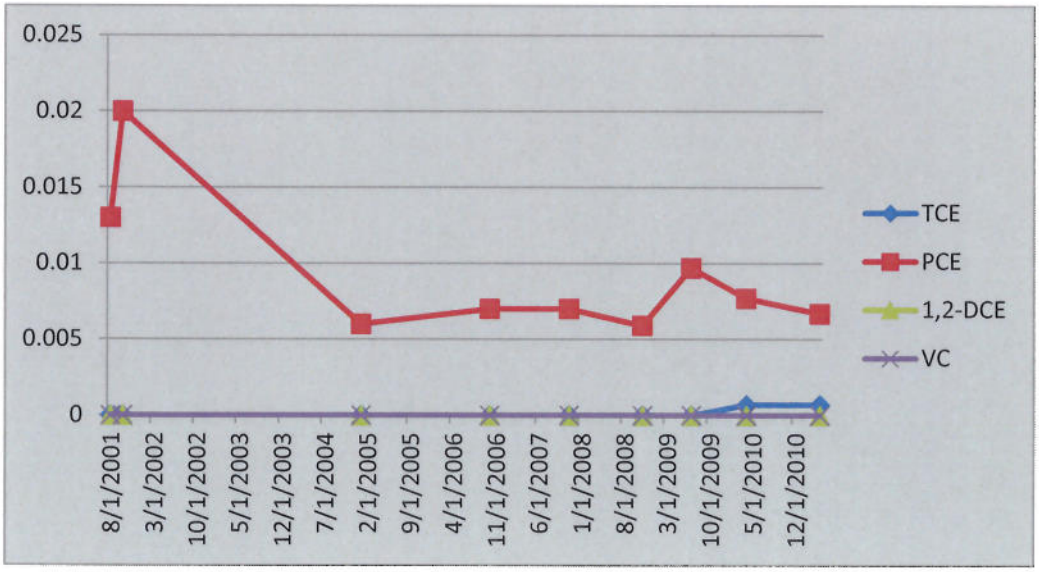
Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria



MW-15 Groundwater Data
Delphi Harrison Thermal Systems Site
GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
Class GA Criteria	0.005	0.005	0.005	0.002
8/8/2001	<0.002	**0.013**	<0.002	<0.002
10/30/2001	<0.002	**0.02**	<0.002	<0.002
1/12/2005	<0.002	**0.006**	<0.002	<0.002
10/24/2006	<0.002	**0.007**	<0.002	<0.002
11/28/2007	<0.002	**0.007**	<0.002	<0.002
11/4/2008	<0.002	**0.0059**	<0.002	<0.002
7/16/2009	<0.005	**0.0097**	<0.005	<0.005
4/28/2010	0.0007	**0.0077**	<0.0008	<0.0009
4/21/2011	0.0007	**0.0067**	<0.0008	<0.0009

Notes:
Results are provided in parts per million (ppm)
Bolded values indicate concentration exceedance of respective NYSDEC Class GA Criteria
Duplicate samples were collected from this location on 10/30/01. The higher of the two concentrations were recorded in this graph.



APPENDIX C

TEST AMERICA ANALYTICAL LABORATORY REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-3974-1
Client Project/Site: GM-Lockport Groundwater Sampling

For:
Conestoga-Rovers & Associates, Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Kathleen Willy

Melissa Deyo

Authorized for release by:
05/12/2011 04:19:18 PM
Melissa Deyo
Project Administrator
melissa.deyo@testamericainc.com

Designee for

Denise Giglia
Project Manager I
denise.giglia@testamericainc.com

Table of Contents

Qualifier Definition/Glossary

Client: Conestoga-Rovers & Associates, Inc. TestAmerica Job ID: 480-3974-1
Project/Site: GM-Lockport Groundwater Sampling

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Job ID: 480-3974-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-3974-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The following samples were diluted due to the abundance of target analytes: MW-10 (480-4057-5 DL), (480-4057-5 MS), (480-4057-5 MSD), MW-9 (480-4134-1 DL), MW-7 (480-4134-2), MW-7 (480-4134-2 DL), MW-8 (480-4134-3 DL), DUP (480-4134-4 DL) and MW-4 (480-4134-5 DL). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 13484 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria; therefore, no corrective action was necessary.

Method 8260B: The method blanks for batches 14403 and 14429 contained Trichloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC VOA
Method RSK-175: The following samples were diluted due to the abundance of target analytes: MW-12 (480-3974-1), MW-13 (480-4057-3), MW-13 (480-4057-3 MS), MW-14 (480-4057-4), MW-10 (480-4057-5), MW-7 (480-4134-2), MW-8 (480-4134-3), DUP (480-4134-4) and MW-4 (480-4134-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals
Method 6010B: The following samples were diluted due to the abundance of target analyte Sodium: MW-13 (480-4057-3), MW-10 (480-4057-5), MW-9 (480-4134-1), MW-7 (480-4134-2), DUP (480-4134-4) and MW-4 (480-4134-5). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 13057 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of the sample was not performed.

Method 6010B: The method blank for preparation batch 13489 contained Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of the samples was not performed.

No other analytical or quality issues were noted.

General Chemistry
Method SM 4500 Cl- E: The method blanks (480-13193/53) and (480-13466/62) for batches 13193 and 13466 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of the samples was not performed.
Method(s) SM 4500 Cl- E: The method blank for batch 13801 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: GM-Lockport Groundwater Sampling

TestAmerica Job ID: 480-3974-1

Client Sample ID: MW-12 — Lab Sample ID: 480-3974-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	96		1.0	0.81	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0	0.46	ug/L	1		8260B	Total/NA
Vinyl chloride	37		1.0	0.90	ug/L	1		8260B	Total/NA
Methane	42		20	4.4	ug/L	20		RSK-175	Total/NA
Calcium	227	B	0.50	0.10	mg/L	1		6010B	Total/NA
Iron	6.6		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	65.1		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	7.1		0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	3.7		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	958		1.0	0.32	mg/L	1		6010B	Total/NA
Ammonia	1.1		0.020	0.0090	mg/L	1		350.1	Total/NA
Sulfate	108		25.0	7.5	mg/L	5		9038	Total/NA
Total Organic Carbon	3.3		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	272		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	1880	B	100	46.0	mg/L	100		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 480-4057-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.7		1.0	0.36	ug/L	1		8260B	Total/NA
Trichloroethene	0.65	J	1.0	0.46	ug/L	1		8260B	Total/NA
Calcium	217		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.019	J	0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	55.5		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.24	B	0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	3.7		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	390		1.0	0.32	mg/L	1		6010B	Total/NA
Nitrate as N	0.95		0.050	0.011	mg/L	1		353.2	Total/NA
Sulfate	86.7		25.0	7.5	mg/L	5		9038	Total/NA
Total Organic Carbon	3.5		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	394		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	895	B	20.0	9.2	mg/L	20		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 480-4057-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	7.1		1.0	0.22	ug/L	1		RSK-175	Total/NA
Calcium	92.5		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.14		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	30.8		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.086	B	0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	5.7		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	119		1.0	0.32	mg/L	1		6010B	Total/NA
Ammonia	0.038		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.32		0.050	0.011	mg/L	1		353.2	Total/NA
Sulfate	53.5		25.0	7.5	mg/L	5		9038	Total/NA
Total Organic Carbon	2.8		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	294		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	170	B	5.0	2.3	mg/L	5		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 480-4057-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	58		10	2.2	ug/L	10		RSK-175	Total/NA

Client Sample ID: MW-13 (Continued) — Lab Sample ID: 480-4057-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	210		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	7.4		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	53.2		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	6.3	B	0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	8.3		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	1320		5.0	1.6	mg/L	5		6010B	Total/NA
Ammonia	0.94		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.069		0.050	0.011	mg/L	1		353.2	Total/NA
Sulfate	105		25.0	7.5	mg/L	5		9038	Total/NA
Total Organic Carbon	5.8		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	368		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	2090	B	50.0	23.0	mg/L	50		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 480-4057-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	16		10	2.2	ug/L	10		RSK-175	Total/NA
Calcium	149		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.052		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	68.0		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.19	B	0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	5.4		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	875		1.0	0.32	mg/L	1		6010B	Total/NA
Ammonia	0.14		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.093		0.050	0.011	mg/L	1		353.2	Total/NA
Sulfate	78.2		25.0	7.5	mg/L	5		9038	Total/NA
Total Organic Carbon	2.8		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	339		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	1750	B	50.0	23.0	mg/L	50		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 480-4057-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	67		1.0	0.36	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.90	ug/L	1		8260B	Total/NA
Trichloroethene	88		1.0	0.46	ug/L	1		8260B	Total/NA
Vinyl chloride	27		1.0	0.90	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	230		4.0	3.2	ug/L	4		8260B	Total/NA
Methane	64		20	4.4	ug/L	20		RSK-175	Total/NA
Calcium	281		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.75		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	77.3		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	2.1	B	0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	6.9		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	1760		5.0	1.6	mg/L	5		6010B	Total/NA
Ammonia	0.11		0.020	0.0090	mg/L	1		350.1	Total/NA
Sulfate	175		50.0	15.0	mg/L	10		9038	Total/NA
Total Organic Carbon	4.1		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	277		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	3230	B	100	46.0	mg/L	100		SM 4500 Cl- E	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-4057-6

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 480-4134-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	4.9		1.0	0.90	ug/L	1		8260B	Total/NA
Vinyl chloride	32		1.0	0.90	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1100		40	32	ug/L	40		8260B	Total/NA
Tetrachloroethene - DL	180		40	14	ug/L	40		8260B	Total/NA
Trichloroethene - DL	2300	B	40	18	ug/L	40		8260B	Total/NA
Methane	6.9		1.0	0.22	ug/L	1		RSK-175	Total/NA
Calcium	392		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.034	J	0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	94.9		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.11		0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	6.9		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	1710		5.0	1.6	mg/L	5		6010B	Total/NA
Ammonia	0.11		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.39		0.050	0.011	mg/L	1		353.2	Total/NA
Sulfate	362		50.0	15.0	mg/L	10		9038	Total/NA
Alkalinity, Total	233		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	3410		121	55.7	mg/L	121		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 480-4134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	42000		5000	4100	ug/L	5000		8260B	Total/NA
Trichloroethene - DL	680000	B	10000	4600	ug/L	10000		8260B	Total/NA
Methane	15		5.0	1.1	ug/L	5		RSK-175	Total/NA
Calcium	121		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.20		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	60.1		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.025		0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	13.8		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	3290		10.0	3.2	mg/L	10		6010B	Total/NA
Ammonia	0.53		0.020	0.0090	mg/L	1		350.1	Total/NA
Sulfate	463		125	37.5	mg/L	25		9038	Total/NA
Total Organic Carbon	9.2		1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	223		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	267		13.0	6.0	mg/L	13		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 480-4134-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.7		1.0	0.36	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.5		1.0	0.90	ug/L	1		8260B	Total/NA
Trichloroethene	78	B	1.0	0.46	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	810		25	20	ug/L	25		8260B	Total/NA
Vinyl chloride - DL	120		25	23	ug/L	25		8260B	Total/NA
Methane	18		5.0	1.1	ug/L	5		RSK-175	Total/NA
Calcium	220		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	0.12		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	102		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.53		0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	7.9		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	355		1.0	0.32	mg/L	1		6010B	Total/NA
Ammonia	0.30		0.020	0.0090	mg/L	1		350.1	Total/NA
Sulfate	562		125	37.5	mg/L	25		9038	Total/NA
Alkalinity, Total	244		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8 (Continued) — Lab Sample ID: 480-4134-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	683		21.0	9.7	mg/L	21		SM 4500 Cl- E	Total/NA

Client Sample ID: DUP — Lab Sample ID: 480-4134-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.8		1.0	0.36	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	50000		1000	810	ug/L	1000		8260B	Total/NA
Trichloroethene - DL	24000	B	1000	460	ug/L	1000		8260B	Total/NA
Vinyl chloride - DL	12000		1000	900	ug/L	1000		8260B	Total/NA
Methane	2000		500	110	ug/L	500		RSK-175	Total/NA
Calcium	493		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	3.1		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	139		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	1.6		0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	17.8		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	1420		5.0	1.6	mg/L	5		6010B	Total/NA
Ammonia	1.9		0.020	0.0090	mg/L	1		350.1	Total/NA
Sulfate	370		50.0	15.0	mg/L	10		9038	Total/NA
Total Organic Carbon	0.60	J	1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	342		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	3260		121	55.7	mg/L	121		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 480-4134-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.5		1.0	0.36	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	45000		1000	810	ug/L	1000		8260B	Total/NA
Trichloroethene - DL	21000	B	1000	460	ug/L	1000		8260B	Total/NA
Vinyl chloride - DL	10000		1000	900	ug/L	1000		8260B	Total/NA
Methane	2000		500	110	ug/L	500		RSK-175	Total/NA
Calcium	476		0.50	0.10	mg/L	1		6010B	Total/NA
Iron	3.1		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	138		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	1.6		0.0030	0.00030	mg/L	1		6010B	Total/NA
Potassium	17.3		0.50	0.20	mg/L	1		6010B	Total/NA
Sodium	1390		5.0	1.6	mg/L	5		6010B	Total/NA
Ammonia	1.9		0.020	0.0090	mg/L	1		350.1	Total/NA
Sulfate	341		50.0	15.0	mg/L	10		9038	Total/NA
Total Organic Carbon	0.54	J	1.0	0.43	mg/L	1		9060	Total/NA
Alkalinity, Total	343		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	3130		121	55.7	mg/L	121		SM 4500 Cl- E	Total/NA

Client Sample ID: BLANK — Lab Sample ID: 480-4134-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.81	ug/L	1		8260B	Total/NA
Trichloroethene	2.1	B	1.0	0.46	ug/L	1		8260B	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 480-3974-1

Date Collected: 04/20/11 10:00

Matrix: Water

Date Received: 04/20/11 11:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**96**		1.0	0.81	ug/L			04/21/11 22:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/21/11 22:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/21/11 22:16	1
Trichloroethene	**1.2**		1.0	0.46	ug/L			04/21/11 22:16	1
Vinyl chloride	**37**		1.0	0.90	ug/L			04/21/11 22:16	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*04/21/11 22:16*	*1*
Toluene-d8 (Surr)	*103*		*71 - 126*		*04/21/11 22:16*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*04/21/11 22:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**42**		20	4.4	ug/L			04/21/11 15:24	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**227**	**B**	0.50	0.10	mg/L		04/21/11 10:30	04/21/11 18:58	1
Iron	**6.6**		0.050	0.019	mg/L		04/21/11 10:30	04/21/11 18:58	1
Magnesium	**65.1**		0.20	0.043	mg/L		04/21/11 10:30	04/21/11 18:58	1
Manganese	**7.1**		0.0030	0.00030	mg/L		04/21/11 10:30	04/21/11 18:58	1
Potassium	**3.7**		0.50	0.20	mg/L		04/21/11 10:30	04/21/11 18:58	1
Sodium	**958**		1.0	0.32	mg/L		04/21/11 10:30	04/21/11 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**1.1**		0.020	0.0090	mg/L			04/21/11 13:52	1
Nitrate as N	ND		0.050	0.011	mg/L			04/20/11 20:20	1
Nitrite as N	ND		0.050	0.020	mg/L			04/20/11 20:20	1
Sulfate	**108**		25.0	7.5	mg/L			04/21/11 14:42	5
Total Organic Carbon	**3.3**		1.0	0.43	mg/L			05/03/11 21:38	1
Alkalinity, Total	**272**		5.0	0.79	mg/L			04/25/11 14:27	1
Chloride	**1880**	**B**	100	46.0	mg/L			04/21/11 17:47	100
Sulfide	ND		0.10	0.052	mg/L			04/23/11 11:25	1

Client Sample ID: MW-15

Lab Sample ID: 480-4057-1

Date Collected: 04/21/11 09:10

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/23/11 19:04	1
Tetrachloroethene	**6.7**		1.0	0.36	ug/L			04/23/11 19:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/11 19:04	1
Trichloroethene	**0.65**	**J**	1.0	0.46	ug/L			04/23/11 19:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/11 19:04	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*04/23/11 19:04*	*1*
Toluene-d8 (Surr)	*102*		*71 - 126*		*04/23/11 19:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*04/23/11 19:04*	*1*

Client Sample ID: MW-15

Lab Sample ID: 480-4057-1

Date Collected: 04/21/11 09:10

Matrix: Water

Date Received: 04/21/11 16:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		1.0	0.22	ug/L			04/26/11 11:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**217**		0.50	0.10	mg/L		04/25/11 09:30	04/25/11 19:57	1
Iron	**0.019**	**J**	0.050	0.019	mg/L		04/25/11 09:30	04/25/11 19:57	1
Magnesium	**55.5**		0.20	0.043	mg/L		04/25/11 09:30	04/25/11 19:57	1
Manganese	**0.24**	**B**	0.0030	0.00030	mg/L		04/25/11 09:30	04/25/11 19:57	1
Potassium	**3.7**		0.50	0.20	mg/L		04/25/11 09:30	04/25/11 19:57	1
Sodium	**390**		1.0	0.32	mg/L		04/25/11 09:30	04/25/11 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			04/23/11 14:20	1
Nitrate as N	**0.95**		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:32	1
Sulfate	**86.7**		25.0	7.5	mg/L			04/23/11 13:01	5
Total Organic Carbon	**3.5**		1.0	0.43	mg/L			05/04/11 00:40	1
Alkalinity, Total	**394**		5.0	0.79	mg/L			04/23/11 19:11	1
Chloride	**895**	**B**	20.0	9.2	mg/L			04/23/11 13:04	20
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-11

Lab Sample ID: 480-4057-2

Date Collected: 04/21/11 10:50

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/23/11 19:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/23/11 19:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/11 19:29	1
Trichloroethene	ND		1.0	0.46	ug/L			04/23/11 19:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/11 19:29	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*66 - 137*		*04/23/11 19:29*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*		*04/23/11 19:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*04/23/11 19:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**7.1**		1.0	0.22	ug/L			04/26/11 11:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**92.5**		0.50	0.10	mg/L		04/25/11 09:30	04/25/11 20:00	1
Iron	**0.14**		0.050	0.019	mg/L		04/25/11 09:30	04/25/11 20:00	1
Magnesium	**30.8**		0.20	0.043	mg/L		04/25/11 09:30	04/25/11 20:00	1
Manganese	**0.086**	**B**	0.0030	0.00030	mg/L		04/25/11 09:30	04/25/11 20:00	1
Potassium	**5.7**		0.50	0.20	mg/L		04/25/11 09:30	04/25/11 20:00	1
Sodium	**119**		1.0	0.32	mg/L		04/25/11 09:30	04/25/11 20:00	1

Client Sample ID: MW-11

Lab Sample ID: 480-4057-2

Date Collected: 04/21/11 10:50

Matrix: Water

Date Received: 04/21/11 16:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.038**		0.020	0.0090	mg/L			04/23/11 14:23	1
Nitrate as N	**0.32**		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:33	1
Sulfate	**53.5**		25.0	7.5	mg/L			04/23/11 13:01	5
Total Organic Carbon	**2.8**		1.0	0.43	mg/L			05/04/11 01:08	1
Alkalinity, Total	**294**		5.0	0.79	mg/L			04/23/11 19:20	1
Chloride	**170**	**B**	5.0	2.3	mg/L			04/23/11 12:56	5
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-13

Lab Sample ID: 480-4057-3

Date Collected: 04/21/11 12:00

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/23/11 19:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/23/11 19:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/11 19:55	1
Trichloroethene	ND		1.0	0.46	ug/L			04/23/11 19:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/11 19:55	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*04/23/11 19:55*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*04/23/11 19:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/23/11 19:55*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**58**		10	2.2	ug/L			04/26/11 13:10	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**210**		0.50	0.10	mg/L		04/25/11 09:30	04/25/11 20:02	1
Iron	**7.4**		0.050	0.019	mg/L		04/25/11 09:30	04/25/11 20:02	1
Magnesium	**53.2**		0.20	0.043	mg/L		04/25/11 09:30	04/25/11 20:02	1
Manganese	**6.3**	**B**	0.0030	0.00030	mg/L		04/25/11 09:30	04/25/11 20:02	1
Potassium	**8.3**		0.50	0.20	mg/L		04/25/11 09:30	04/25/11 20:02	1
Sodium	**1320**		5.0	1.6	mg/L		04/25/11 09:30	04/26/11 20:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.94**		0.020	0.0090	mg/L			04/23/11 14:24	1
Nitrate as N	**0.069**		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:34	1
Sulfate	**105**		25.0	7.5	mg/L			04/23/11 13:01	5
Total Organic Carbon	**5.8**		1.0	0.43	mg/L			05/04/11 01:37	1
Alkalinity, Total	**368**		5.0	0.79	mg/L			04/23/11 19:29	1
Chloride	**2090**	**B**	50.0	23.0	mg/L			04/23/11 13:48	50
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-14

Lab Sample ID: 480-4057-4

Date Collected: 04/21/11 14:45

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/23/11 21:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/23/11 21:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/11 21:10	1
Trichloroethene	ND		1.0	0.46	ug/L			04/23/11 21:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/11 21:10	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*		*04/23/11 21:10*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*04/23/11 21:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*04/23/11 21:10*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**16**		10	2.2	ug/L			04/26/11 13:52	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**149**		0.50	0.10	mg/L		04/25/11 09:30	04/25/11 20:04	1
Iron	**0.052**		0.050	0.019	mg/L		04/25/11 09:30	04/25/11 20:04	1
Magnesium	**68.0**		0.20	0.043	mg/L		04/25/11 09:30	04/25/11 20:04	1
Manganese	**0.19**	**B**	0.0030	0.00030	mg/L		04/25/11 09:30	04/25/11 20:04	1
Potassium	**5.4**		0.50	0.20	mg/L		04/25/11 09:30	04/25/11 20:04	1
Sodium	**875**		1.0	0.32	mg/L		04/25/11 09:30	04/25/11 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.14**		0.020	0.0090	mg/L			04/23/11 14:25	1
Nitrate as N	**0.093**		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:35	1
Sulfate	**78.2**		25.0	7.5	mg/L			04/23/11 13:01	5
Total Organic Carbon	**2.8**		1.0	0.43	mg/L			05/04/11 02:05	1
Alkalinity, Total	**339**		5.0	0.79	mg/L			04/23/11 19:37	1
Chloride	**1750**	**B**	50.0	23.0	mg/L			04/23/11 13:48	50
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-10

Lab Sample ID: 480-4057-5

Date Collected: 04/21/11 16:10

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**67**		1.0	0.36	ug/L			04/23/11 21:36	1
trans-1,2-Dichloroethene	**1.6**		1.0	0.90	ug/L			04/23/11 21:36	1
Trichloroethene	**88**		1.0	0.46	ug/L			04/23/11 21:36	1
Vinyl chloride	**27**		1.0	0.90	ug/L			04/23/11 21:36	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*		*04/23/11 21:36*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*		*04/23/11 21:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*04/23/11 21:36*	*1*

Client Sample ID: MW-10

Lab Sample ID: 480-4057-5

Date Collected: 04/21/11 16:10

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	230		4.0	3.2	ug/L			04/25/11 12:41	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*66 - 137*		*04/25/11 12:41*	*4*
Toluene-d8 (Surr)	*104*		*71 - 126*		*04/25/11 12:41*	*4*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*04/25/11 12:41*	*4*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	64		20	4.4	ug/L			04/26/11 14:06	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	281		0.50	0.10	mg/L		04/25/11 09:30	04/25/11 20:06	1
Iron	0.75		0.050	0.019	mg/L		04/25/11 09:30	04/25/11 20:06	1
Magnesium	77.3		0.20	0.043	mg/L		04/25/11 09:30	04/25/11 20:06	1
Manganese	2.1	B	0.0030	0.00030	mg/L		04/25/11 09:30	04/25/11 20:06	1
Potassium	6.9		0.50	0.20	mg/L		04/25/11 09:30	04/25/11 20:06	1
Sodium	1760		5.0	1.6	mg/L		04/25/11 09:30	04/26/11 20:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.11		0.020	0.0090	mg/L			04/23/11 14:26	1
Nitrate as N	ND		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:16	1
Sulfate	175		50.0	15.0	mg/L			04/23/11 13:02	10
Total Organic Carbon	4.1		1.0	0.43	mg/L			05/04/11 02:34	1
Alkalinity, Total	277		5.0	0.79	mg/L			04/23/11 19:46	1
Chloride	3230	B	100	46.0	mg/L			04/23/11 13:15	100
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-4057-6

Date Collected: 04/21/11 00:00

Matrix: Water

Date Received: 04/21/11 16:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/23/11 22:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/23/11 22:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/11 22:01	1
Trichloroethene	ND		1.0	0.46	ug/L			04/23/11 22:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/11 22:01	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 137*		*04/23/11 22:01*	*1*
Toluene-d8 (Surr)	*103*		*71 - 126*		*04/23/11 22:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*04/23/11 22:01*	*1*

Client Sample ID: MW-9

Lab Sample ID: 480-4134-1

Date Collected: 04/22/11 11:15

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	4.9		1.0	0.90	ug/L			04/29/11 11:43	1
Vinyl chloride	32		1.0	0.90	ug/L			04/29/11 11:43	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*04/29/11 11:43*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*		*04/29/11 11:43*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*04/29/11 11:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1100		40	32	ug/L			05/01/11 15:50	40
Tetrachloroethene	180		40	14	ug/L			05/01/11 15:50	40
Trichloroethene	2300	B	40	18	ug/L			05/01/11 15:50	40

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*05/01/11 15:50*	*40*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/01/11 15:50*	*40*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/01/11 15:50*	*40*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	6.9		1.0	0.22	ug/L			04/28/11 11:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	392		0.50	0.10	mg/L		04/26/11 09:10	04/26/11 19:07	1
Iron	0.034	J	0.050	0.019	mg/L		04/26/11 09:10	04/26/11 19:07	1
Magnesium	94.9		0.20	0.043	mg/L		04/26/11 09:10	04/26/11 19:07	1
Manganese	0.11		0.0030	0.00030	mg/L		04/26/11 09:10	04/26/11 19:07	1
Potassium	6.9		0.50	0.20	mg/L		04/26/11 09:10	04/26/11 19:07	1
Sodium	1710		5.0	1.6	mg/L		04/26/11 09:10	04/27/11 17:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.11		0.020	0.0090	mg/L			04/25/11 12:24	1
Nitrate as N	0.39		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:47	1
Sulfate	362		50.0	15.0	mg/L			04/26/11 08:04	10
Total Organic Carbon	ND		1.0	0.43	mg/L			04/29/11 06:45	1
Alkalinity, Total	233		5.0	0.79	mg/L			04/25/11 15:06	1
Chloride	3410		121	55.7	mg/L			04/26/11 15:13	121
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-7

Lab Sample ID: 480-4134-2

Date Collected: 04/22/11 12:00

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	42000		5000	4100	ug/L			05/01/11 16:15	5000
Tetrachloroethene	ND		5000	1800	ug/L			05/01/11 16:15	5000
trans-1,2-Dichloroethene	ND		5000	4500	ug/L			05/01/11 16:15	5000

Client Sample ID: MW-7

Lab Sample ID: 480-4134-2

Date Collected: 04/22/11 12:00

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		5000	4500	ug/L			05/01/11 16:15	5000

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*05/01/11 16:15*	*5000*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/01/11 16:15*	*5000*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*05/01/11 16:15*	*5000*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**680000**	**B**	10000	4600	ug/L			05/02/11 12:51	10000

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*66 - 137*		*05/02/11 12:51*	*10000*
Toluene-d8 (Surr)	*95*		*71 - 126*		*05/02/11 12:51*	*10000*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/02/11 12:51*	*10000*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**15**		5.0	1.1	ug/L			04/28/11 13:42	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**121**		0.50	0.10	mg/L		04/26/11 09:10	04/26/11 19:09	1
Iron	**0.20**		0.050	0.019	mg/L		04/26/11 09:10	04/26/11 19:09	1
Magnesium	**60.1**		0.20	0.043	mg/L		04/26/11 09:10	04/26/11 19:09	1
Manganese	**0.025**		0.0030	0.00030	mg/L		04/26/11 09:10	04/26/11 19:09	1
Potassium	**13.8**		0.50	0.20	mg/L		04/26/11 09:10	04/26/11 19:09	1
Sodium	**3290**		10.0	3.2	mg/L		04/26/11 09:10	04/27/11 17:19	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.53**		0.020	0.0090	mg/L			04/25/11 12:25	1
Nitrate as N	ND		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:16	1
Sulfate	**463**		125	37.5	mg/L			04/26/11 08:23	25
Total Organic Carbon	**9.2**		1.0	0.43	mg/L			05/05/11 00:59	1
Alkalinity, Total	**223**		5.0	0.79	mg/L			04/25/11 15:15	1
Chloride	**267**		13.0	6.0	mg/L			04/26/11 15:13	13
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-8

Lab Sample ID: 480-4134-3

Date Collected: 04/22/11 13:30

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**7.7**		1.0	0.36	ug/L			05/01/11 16:39	1
trans-1,2-Dichloroethene	**2.5**		1.0	0.90	ug/L			05/01/11 16:39	1
Trichloroethene	**78**	**B**	1.0	0.46	ug/L			05/01/11 16:39	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*		*05/01/11 16:39*	*1*

Client Sample ID: MW-8

Lab Sample ID: 480-4134-3

Date Collected: 04/22/11 13:30

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/01/11 16:39*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/01/11 16:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**810**		25	20	ug/L			05/02/11 13:16	25
Vinyl chloride	**120**		25	23	ug/L			05/02/11 13:16	25

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*66 - 137*		*05/02/11 13:16*	*25*
Toluene-d8 (Surr)	*97*		*71 - 126*		*05/02/11 13:16*	*25*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*05/02/11 13:16*	*25*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**18**		5.0	1.1	ug/L			04/28/11 13:56	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**220**		0.50	0.10	mg/L		04/26/11 09:10	04/26/11 19:14	1
Iron	**0.12**		0.050	0.019	mg/L		04/26/11 09:10	04/26/11 19:14	1
Magnesium	**102**		0.20	0.043	mg/L		04/26/11 09:10	04/26/11 19:14	1
Manganese	**0.53**		0.0030	0.00030	mg/L		04/26/11 09:10	04/26/11 19:14	1
Potassium	**7.9**		0.50	0.20	mg/L		04/26/11 09:10	04/26/11 19:14	1
Sodium	**355**		1.0	0.32	mg/L		04/26/11 09:10	04/26/11 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.30**		0.020	0.0090	mg/L			04/25/11 12:26	1
Nitrate as N	ND		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:16	1
Sulfate	**562**		125	37.5	mg/L			04/26/11 08:23	25
Total Organic Carbon	ND		1.0	0.43	mg/L			04/29/11 08:03	1
Alkalinity, Total	**244**		5.0	0.79	mg/L			04/25/11 15:23	1
Chloride	**683**		21.0	9.7	mg/L			04/26/11 15:13	21
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: DUP

Lab Sample ID: 480-4134-4

Date Collected: 04/22/11 12:30

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.8**		1.0	0.36	ug/L			04/29/11 12:58	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*66 - 137*		*04/29/11 12:58*	*1*
Toluene-d8 (Surr)	*103*		*71 - 126*		*04/29/11 12:58*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*04/29/11 12:58*	*1*

Client Sample ID: DUP

Lab Sample ID: 480-4134-4

Date Collected: 04/22/11 12:30

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	50000		1000	810	ug/L			05/02/11 13:41	1000
trans-1,2-Dichloroethene	ND		1000	900	ug/L			05/02/11 13:41	1000
Trichloroethene	24000	B	1000	460	ug/L			05/02/11 13:41	1000
Vinyl chloride	12000		1000	900	ug/L			05/02/11 13:41	1000

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*		*05/02/11 13:41*	*1000*
Toluene-d8 (Surr)	*98*		*71 - 126*		*05/02/11 13:41*	*1000*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/02/11 13:41*	*1000*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	2000		500	110	ug/L			04/28/11 14:10	500

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	493		0.50	0.10	mg/L		04/26/11 09:10	04/26/11 19:16	1
Iron	3.1		0.050	0.019	mg/L		04/26/11 09:10	04/26/11 19:16	1
Magnesium	139		0.20	0.043	mg/L		04/26/11 09:10	04/26/11 19:16	1
Manganese	1.6		0.0030	0.00030	mg/L		04/26/11 09:10	04/26/11 19:16	1
Potassium	17.8		0.50	0.20	mg/L		04/26/11 09:10	04/26/11 19:16	1
Sodium	1420		5.0	1.6	mg/L		04/26/11 09:10	04/27/11 17:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	1.9		0.020	0.0090	mg/L			04/25/11 12:27	1
Nitrate as N	ND		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:16	1
Sulfate	370		50.0	15.0	mg/L			04/26/11 08:05	10
Total Organic Carbon	0.60	J	1.0	0.43	mg/L			04/29/11 08:42	1
Alkalinity, Total	342		5.0	0.79	mg/L			04/25/11 15:31	1
Chloride	3260		121	55.7	mg/L			04/26/11 15:10	121
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Client Sample ID: MW-4

Lab Sample ID: 480-4134-5

Date Collected: 04/22/11 15:50

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.5		1.0	0.36	ug/L			04/29/11 13:23	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*66 - 137*		*04/29/11 13:23*	*1*
Toluene-d8 (Surr)	*100*		*71 - 126*		*04/29/11 13:23*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/29/11 13:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	45000		1000	810	ug/L			05/02/11 14:06	1000
trans-1,2-Dichloroethene	ND		1000	900	ug/L			05/02/11 14:06	1000
Trichloroethene	21000	B	1000	460	ug/L			05/02/11 14:06	1000

Client Sample ID: MW-4

Lab Sample ID: 480-4134-5

Date Collected: 04/22/11 15:50

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	10000		1000	900	ug/L			05/02/11 14:06	1000

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*66 - 137*		*05/02/11 14:06*	*1000*
Toluene-d8 (Surr)	*93*		*71 - 126*		*05/02/11 14:06*	*1000*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*05/02/11 14:06*	*1000*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	2000		500	110	ug/L			04/28/11 14:24	500

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	476		0.50	0.10	mg/L		04/26/11 09:10	04/26/11 19:18	1
Iron	3.1		0.050	0.019	mg/L		04/26/11 09:10	04/26/11 19:18	1
Magnesium	138		0.20	0.043	mg/L		04/26/11 09:10	04/26/11 19:18	1
Manganese	1.6		0.0030	0.00030	mg/L		04/26/11 09:10	04/26/11 19:18	1
Potassium	17.3		0.50	0.20	mg/L		04/26/11 09:10	04/26/11 19:18	1
Sodium	1390		5.0	1.6	mg/L		04/26/11 09:10	04/27/11 17:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	1.9		0.020	0.0090	mg/L			04/25/11 12:28	1
Nitrate as N	ND		0.050	0.011	mg/L			04/22/11 22:16	1
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:16	1
Sulfate	341		50.0	15.0	mg/L			04/26/11 08:10	10
Total Organic Carbon	0.54	J	1.0	0.43	mg/L			04/29/11 11:58	1
Alkalinity, Total	343		5.0	0.79	mg/L			04/25/11 15:41	1
Chloride	3130		121	55.7	mg/L			04/26/11 15:10	121
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:55	1

Client Sample ID: BLANK

Lab Sample ID: 480-4134-6

Date Collected: 04/22/11 00:00

Matrix: Water

Date Received: 04/22/11 16:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2.5		1.0	0.81	ug/L			05/02/11 14:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/02/11 14:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/02/11 14:30	1
Trichloroethene	2.1	B	1.0	0.46	ug/L			05/02/11 14:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/02/11 14:30	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*		*05/02/11 14:30*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*05/02/11 14:30*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*05/02/11 14:30*	*1*

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: GM-Lockport Groundwater Sampling

TestAmerica Job ID: 480-3974-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-3974-1	MW-12	106	103	97
480-4057-1	MW-15	106	102	97
480-4057-2	MW-11	109	105	98
480-4057-3	MW-13	106	104	100
480-4057-3 MS	MW-13	103	104	102
480-4057-3 MSD	MW-13	104	103	103
480-4057-4	MW-14	107	104	99
480-4057-5	MW-10	107	105	98
480-4057-5 - DL	MW-10	109	104	97
480-4057-5 MS	MW-10	108	100	98
480-4057-5 MSD	MW-10	108	101	99
480-4057-6	TRIP BLANK	110	103	99
480-4134-1	MW-9	96	101	96
480-4134-1 - DL	MW-9	96	96	91
480-4134-2	MW-7	100	99	92
480-4134-2 - DL	MW-7	101	95	89
480-4134-3	MW-8	98	96	89
480-4134-3 - DL	MW-8	105	97	88
480-4134-4	DUP	90	103	105
480-4134-4 - DL	DUP	104	98	89
480-4134-5	MW-4	87	100	103
480-4134-5 - DL	MW-4	99	93	84
480-4134-6	BLANK	103	94	86
LCS 480-13096/4	LCS 480-13096/4	100	107	104
LCS 480-13396/4	LCS 480-13396/4	103	106	106
LCS 480-13484/4	LCS 480-13484/4	104	103	103
LCS 480-14166/3	LCS 480-14166/3	89	101	106
LCS 480-14403/3	LCS 480-14403/3	93	97	95
LCS 480-14429/4	LCS 480-14429/4	94	95	93
MB 480-13096/5	MB 480-13096/5	102	105	100
MB 480-13396/5	MB 480-13396/5	108	104	100
MB 480-13484/5	MB 480-13484/5	114	107	102
MB 480-14166/4	MB 480-14166/4	94	102	101
MB 480-14403/4	MB 480-14403/4	96	96	91
MB 480-14429/5	MB 480-14429/5	97	94	90

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-13096/5
Matrix: Water
Analysis Batch: 13096

Client Sample ID: MB 480-13096/5
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/21/11 14:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/21/11 14:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/21/11 14:04	1
Trichloroethene	ND		1.0	0.46	ug/L			04/21/11 14:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/21/11 14:04	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*04/21/11 14:04*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*		*04/21/11 14:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/21/11 14:04*	*1*

Lab Sample ID: LCS 480-13096/4
Matrix: Water
Analysis Batch: 13096

Client Sample ID: LCS 480-13096/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	74 - 124
Tetrachloroethene	25.0	23.5		ug/L		94	74 - 122
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127
Trichloroethene	25.0	23.7		ug/L		95	74 - 123

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*
Toluene-d8 (Surr)	*107*		*71 - 126*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

Lab Sample ID: MB 480-13396/5
Matrix: Water
Analysis Batch: 13396

Client Sample ID: MB 480-13396/5
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/23/11 15:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/23/11 15:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/11 15:08	1
Trichloroethene	ND		1.0	0.46	ug/L			04/23/11 15:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/11 15:08	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*		*04/23/11 15:08*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*04/23/11 15:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/23/11 15:08*	*1*

Lab Sample ID: LCS 480-13396/4
Matrix: Water
Analysis Batch: 13396

Client Sample ID: LCS 480-13396/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	25.0	23.9		ug/L		95	74 - 124
Tetrachloroethene	25.0	24.9		ug/L		100	74 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-13396/4
Matrix: Water
Analysis Batch: 13396

Client Sample ID: LCS 480-13396/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
Trichloroethene	25.0	24.1		ug/L		97	74 - 123

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*
Toluene-d8 (Surr)	*106*		*71 - 126*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*

Lab Sample ID: 480-4057-3 MS
Matrix: Water
Analysis Batch: 13396

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	ND		25.0	24.8		ug/L		99	74 - 124
Tetrachloroethene	ND		25.0	24.5		ug/L		98	74 - 122
trans-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	73 - 127
Trichloroethene	ND		25.0	25.9		ug/L		103	74 - 123

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*
Toluene-d8 (Surr)	*104*		*71 - 126*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Lab Sample ID: 480-4057-3 MSD
Matrix: Water
Analysis Batch: 13396

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	74 - 124	4	15
Tetrachloroethene	ND		25.0	25.7		ug/L		103	74 - 122	5	20
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		107	73 - 127	5	20
Trichloroethene	ND		25.0	27.0		ug/L		108	74 - 123	4	16

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*
Toluene-d8 (Surr)	*103*		*71 - 126*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*

Lab Sample ID: MB 480-13484/5
Matrix: Water
Analysis Batch: 13484

Client Sample ID: MB 480-13484/5
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/25/11 12:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/25/11 12:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/25/11 12:03	1
Trichloroethene	ND		1.0	0.46	ug/L			04/25/11 12:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/25/11 12:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-13484/5
Matrix: Water
Analysis Batch: 13484

Client Sample ID: MB 480-13484/5
Prep Type: Total/NA

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		66 - 137		04/25/11 12:03	1
Toluene-d8 (Surr)	107		71 - 126		04/25/11 12:03	1
4-Bromofluorobenzene (Surr)	102		73 - 120		04/25/11 12:03	1

Lab Sample ID: LCS 480-13484/4
Matrix: Water
Analysis Batch: 13484

Client Sample ID: LCS 480-13484/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	25.0	22.4		ug/L		89	74 - 124
Tetrachloroethene	25.0	23.5		ug/L		94	74 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
Trichloroethene	25.0	23.7		ug/L		95	74 - 123

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Lab Sample ID: 480-4057-5 MS
Matrix: Water
Analysis Batch: 13484

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	230		100	295	F	ug/L		67	74 - 124
Tetrachloroethene	67		100	152		ug/L		85	74 - 122
trans-1,2-Dichloroethene	ND		100	98.4		ug/L		98	73 - 127
Trichloroethene	88		100	175		ug/L		87	74 - 123

Surrogate	MS % Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Lab Sample ID: 480-4057-5 MSD
Matrix: Water
Analysis Batch: 13484

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	230		100	280	F	ug/L		53	74 - 124	5	15
Tetrachloroethene	67		100	146		ug/L		79	74 - 122	4	20
trans-1,2-Dichloroethene	ND		100	93.5		ug/L		93	73 - 127	5	20
Trichloroethene	88		100	168		ug/L		80	74 - 123	4	16

Surrogate	MSD % Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-14166/4
Matrix: Water
Analysis Batch: 14166

Client Sample ID: MB 480-14166/4
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/29/11 10:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/29/11 10:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/29/11 10:39	1
Trichloroethene	ND		1.0	0.46	ug/L			04/29/11 10:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/29/11 10:39	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*66 - 137*		*04/29/11 10:39*	*1*
Toluene-d8 (Surr)	*102*		*71 - 126*		*04/29/11 10:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/29/11 10:39*	*1*

Lab Sample ID: LCS 480-14166/3
Matrix: Water
Analysis Batch: 14166

Client Sample ID: LCS 480-14166/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	25.0	20.1		ug/L		80	74 - 124
Tetrachloroethene	25.0	22.1		ug/L		88	74 - 122
trans-1,2-Dichloroethene	25.0	20.1		ug/L		81	73 - 127
Trichloroethene	25.0	20.8		ug/L		83	74 - 123

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 137*
Toluene-d8 (Surr)	*101*		*71 - 126*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*

Lab Sample ID: MB 480-14403/4
Matrix: Water
Analysis Batch: 14403

Client Sample ID: MB 480-14403/4
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/01/11 14:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/01/11 14:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/01/11 14:44	1
Trichloroethene	0.999	J	1.0	0.46	ug/L			05/01/11 14:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/01/11 14:44	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*05/01/11 14:44*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/01/11 14:44*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/01/11 14:44*	*1*

Lab Sample ID: LCS 480-14403/3
Matrix: Water
Analysis Batch: 14403

Client Sample ID: LCS 480-14403/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-14403/3
Matrix: Water
Analysis Batch: 14403

Client Sample ID: LCS 480-14403/3
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
trans-1,2-Dichloroethene			25.0	26.8		ug/L		107	73 - 127		
Trichloroethene			25.0	27.7		ug/L		111	74 - 123		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*66 - 137*
Toluene-d8 (Surr)	*97*		*71 - 126*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*

Lab Sample ID: MB 480-14429/5
Matrix: Water
Analysis Batch: 14429

Client Sample ID: MB 480-14429/5
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/02/11 11:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/02/11 11:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/02/11 11:21	1
Trichloroethene	0.984	J	1.0	0.46	ug/L			05/02/11 11:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/02/11 11:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*		*05/02/11 11:21*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*05/02/11 11:21*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/02/11 11:21*	*1*

Lab Sample ID: LCS 480-14429/4
Matrix: Water
Analysis Batch: 14429

Client Sample ID: LCS 480-14429/4
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
cis-1,2-Dichloroethene			25.0	25.9		ug/L		103	74 - 124		
Tetrachloroethene			25.0	25.9		ug/L		104	74 - 122		
trans-1,2-Dichloroethene			25.0	27.7		ug/L		111	73 - 127		
Trichloroethene			25.0	28.8		ug/L		115	74 - 123		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*66 - 137*
Toluene-d8 (Surr)	*95*		*71 - 126*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-13134/2
Matrix: Water
Analysis Batch: 13134

Client Sample ID: MB 480-13134/2
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		1.0	0.22	ug/L			04/21/11 13:27	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 480-13134/3
Matrix: Water
Analysis Batch: 13134

Client Sample ID: LCS 480-13134/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methane	3.86	3.91		ug/L		101	67 - 140

Lab Sample ID: MB 480-13662/3
Matrix: Water
Analysis Batch: 13662

Client Sample ID: MB 480-13662/3
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		1.0	0.22	ug/L			04/26/11 09:52	1

Lab Sample ID: LCS 480-13662/4
Matrix: Water
Analysis Batch: 13662

Client Sample ID: LCS 480-13662/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methane	3.86	2.81		ug/L		73	67 - 140

Lab Sample ID: 480-4057-3 MS
Matrix: Water
Analysis Batch: 13662

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methane	58		38.6	98.0		ug/L		103	37 - 168

Lab Sample ID: MB 480-13993/2
Matrix: Water
Analysis Batch: 13993

Client Sample ID: MB 480-13993/2
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		1.0	0.22	ug/L			04/28/11 09:26	1

Lab Sample ID: LCS 480-13993/3
Matrix: Water
Analysis Batch: 13993

Client Sample ID: LCS 480-13993/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methane	3.86	3.64		ug/L		94	67 - 140

Lab Sample ID: LCSD 480-13993/4
Matrix: Water
Analysis Batch: 13993

Client Sample ID: LCSD 480-13993/4
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methane	3.86	4.13		ug/L		107	67 - 140	13	50

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-13057/1-A
Matrix: Water
Analysis Batch: 13232

Client Sample ID: MB 480-13057/1-A
Prep Type: Total/NA
Prep Batch: 13057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.110	J	0.50	0.10	mg/L		04/21/11 10:30	04/21/11 18:09	1
Iron	ND		0.050	0.019	mg/L		04/21/11 10:30	04/21/11 18:09	1
Magnesium	ND		0.20	0.043	mg/L		04/21/11 10:30	04/21/11 18:09	1
Manganese	ND		0.0030	0.00030	mg/L		04/21/11 10:30	04/21/11 18:09	1
Potassium	ND		0.50	0.20	mg/L		04/21/11 10:30	04/21/11 18:09	1
Sodium	ND		1.0	0.32	mg/L		04/21/11 10:30	04/21/11 18:09	1

Lab Sample ID: LCS 480-13057/2-A
Matrix: Water
Analysis Batch: 13232

Client Sample ID: LCS 480-13057/2-A
Prep Type: Total/NA
Prep Batch: 13057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Calcium	10.0	10.15		mg/L		101	80 - 120
Iron	10.0	9.88		mg/L		99	80 - 120
Magnesium	10.0	10.37		mg/L		104	80 - 120
Manganese	0.200	0.204		mg/L		102	80 - 120
Potassium	10.0	10.07		mg/L		101	80 - 120
Sodium	10.0	9.89		mg/L		99	80 - 120

Lab Sample ID: MB 480-13489/1-A
Matrix: Water
Analysis Batch: 13647

Client Sample ID: MB 480-13489/1-A
Prep Type: Total/NA
Prep Batch: 13489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50	0.10	mg/L		04/25/11 09:30	04/25/11 19:06	1
Iron	ND		0.050	0.019	mg/L		04/25/11 09:30	04/25/11 19:06	1
Magnesium	ND		0.20	0.043	mg/L		04/25/11 09:30	04/25/11 19:06	1
Manganese	0.000420	J	0.0030	0.00030	mg/L		04/25/11 09:30	04/25/11 19:06	1
Potassium	ND		0.50	0.20	mg/L		04/25/11 09:30	04/25/11 19:06	1
Sodium	ND		1.0	0.32	mg/L		04/25/11 09:30	04/25/11 19:06	1

Lab Sample ID: LCS 480-13489/2-A
Matrix: Water
Analysis Batch: 13647

Client Sample ID: LCS 480-13489/2-A
Prep Type: Total/NA
Prep Batch: 13489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Calcium	10.0	10.11		mg/L		101	80 - 120
Iron	10.0	9.88		mg/L		99	80 - 120
Magnesium	10.0	10.21		mg/L		102	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Potassium	10.0	9.85		mg/L		99	80 - 120
Sodium	10.0	9.98		mg/L		100	80 - 120

Lab Sample ID: MB 480-13639/1-A
Matrix: Water
Analysis Batch: 13814

Client Sample ID: MB 480-13639/1-A
Prep Type: Total/NA
Prep Batch: 13639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50	0.10	mg/L		04/26/11 09:10	04/26/11 18:42	1
Iron	ND		0.050	0.019	mg/L		04/26/11 09:10	04/26/11 18:42	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-13639/1-A
Matrix: Water
Analysis Batch: 13814

Client Sample ID: MB 480-13639/1-A
Prep Type: Total/NA
Prep Batch: 13639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20	0.043	mg/L		04/26/11 09:10	04/26/11 18:42	1
Manganese	ND		0.0030	0.00030	mg/L		04/26/11 09:10	04/26/11 18:42	1
Potassium	ND		0.50	0.20	mg/L		04/26/11 09:10	04/26/11 18:42	1
Sodium	ND		1.0	0.32	mg/L		04/26/11 09:10	04/26/11 18:42	1

Lab Sample ID: LCS 480-13639/2-A
Matrix: Water
Analysis Batch: 13814

Client Sample ID: LCS 480-13639/2-A
Prep Type: Total/NA
Prep Batch: 13639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Calcium	10.0	10.34		mg/L		103	80 - 120
Iron	10.0	10.14		mg/L		101	80 - 120
Magnesium	10.0	10.42		mg/L		104	80 - 120
Manganese	0.200	0.207		mg/L		104	80 - 120
Potassium	10.0	10.38		mg/L		104	80 - 120
Sodium	10.0	10.31		mg/L		103	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-13139/152
Matrix: Water
Analysis Batch: 13139

Client Sample ID: MB 480-13139/152
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			04/21/11 13:40	1

Lab Sample ID: LCS 480-13139/153
Matrix: Water
Analysis Batch: 13139

Client Sample ID: LCS 480-13139/153
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia	1.00	0.996		mg/L		100	90 - 110

Lab Sample ID: MB 480-13464/4
Matrix: Water
Analysis Batch: 13464

Client Sample ID: MB 480-13464/4
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			04/23/11 14:12	1

Lab Sample ID: LCS 480-13464/3
Matrix: Water
Analysis Batch: 13464

Client Sample ID: LCS 480-13464/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia	1.00	0.921		mg/L		92	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-13590/147
Matrix: Water
Analysis Batch: 13590

Client Sample ID: MB 480-13590/147
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			04/25/11 12:19	1

Lab Sample ID: LCS 480-13590/148
Matrix: Water
Analysis Batch: 13590

Client Sample ID: LCS 480-13590/148
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia	1.00	1.07		mg/L		107	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-13377/3
Matrix: Water
Analysis Batch: 13377

Client Sample ID: MB 480-13377/3
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			04/22/11 22:18	1

Lab Sample ID: LCS 480-13377/4
Matrix: Water
Analysis Batch: 13377

Client Sample ID: LCS 480-13377/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrite as N	1.50	1.53		mg/L		102	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-13192/67
Matrix: Water
Analysis Batch: 13192

Client Sample ID: MB 480-13192/67
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			04/21/11 14:42	1

Lab Sample ID: LCS 480-13192/66
Matrix: Water
Analysis Batch: 13192

Client Sample ID: LCS 480-13192/66
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	30.0	32.78		mg/L		109	90 - 110

Lab Sample ID: MB 480-13465/17
Matrix: Water
Analysis Batch: 13465

Client Sample ID: MB 480-13465/17
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			04/23/11 12:04	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: LCS 480-13465/16
Matrix: Water
Analysis Batch: 13465

Client Sample ID: LCS 480-13465/16
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	30.0	31.12		mg/L		104	90 - 110

Lab Sample ID: MB 480-13657/5
Matrix: Water
Analysis Batch: 13657

Client Sample ID: MB 480-13657/5
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			04/25/11 12:36	1

Lab Sample ID: LCS 480-13657/4
Matrix: Water
Analysis Batch: 13657

Client Sample ID: LCS 480-13657/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	30.0	31.21		mg/L		104	90 - 110

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-14626/16
Matrix: Water
Analysis Batch: 14626

Client Sample ID: MB 480-14626/16
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			04/29/11 11:19	1

Lab Sample ID: MB 480-14626/4
Matrix: Water
Analysis Batch: 14626

Client Sample ID: MB 480-14626/4
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			04/28/11 23:30	1

Lab Sample ID: LCS 480-14626/15
Matrix: Water
Analysis Batch: 14626

Client Sample ID: LCS 480-14626/15
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	30.0	30.02		mg/L		100	90 - 110

Lab Sample ID: LCS 480-14626/3
Matrix: Water
Analysis Batch: 14626

Client Sample ID: LCS 480-14626/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	30.0	29.39		mg/L		98	90 - 110

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-15100/3
Matrix: Water
Analysis Batch: 15100

Client Sample ID: MB 480-15100/3
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			05/03/11 18:38	1

Lab Sample ID: MB 480-15100/51
Matrix: Water
Analysis Batch: 15100

Client Sample ID: MB 480-15100/51
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			05/04/11 18:58	1

Lab Sample ID: LCS 480-15100/4
Matrix: Water
Analysis Batch: 15100

Client Sample ID: LCS 480-15100/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	60.0	54.25		mg/L		90	90 - 110

Lab Sample ID: LCS 480-15100/52
Matrix: Water
Analysis Batch: 15100

Client Sample ID: LCS 480-15100/52
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	60.0	59.00		mg/L		98	90 - 110

Lab Sample ID: 480-3974-1 DU
Matrix: Water
Analysis Batch: 15100

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	3.3		3.20		mg/L		2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-13572/27
Matrix: Water
Analysis Batch: 13572

Client Sample ID: MB 480-13572/27
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			04/23/11 18:52	1

Lab Sample ID: LCS 480-13572/28
Matrix: Water
Analysis Batch: 13572

Client Sample ID: LCS 480-13572/28
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Alkalinity, Total	100	95.48		mg/L		95	90 - 110

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 480-13660/4
Matrix: Water
Analysis Batch: 13660

Client Sample ID: MB 480-13660/4
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			04/25/11 13:29	1

Lab Sample ID: LCS 480-13660/3
Matrix: Water
Analysis Batch: 13660

Client Sample ID: LCS 480-13660/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Alkalinity, Total	100	95.60		mg/L		96	90 - 110

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-13193/53
Matrix: Water
Analysis Batch: 13193

Client Sample ID: MB 480-13193/53
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.657	J	1.0	0.46	mg/L			04/21/11 12:50	1

Lab Sample ID: LCS 480-13193/52
Matrix: Water
Analysis Batch: 13193

Client Sample ID: LCS 480-13193/52
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	25.0	26.60		mg/L		106	90 - 110

Lab Sample ID: MB 480-13466/62
Matrix: Water
Analysis Batch: 13466

Client Sample ID: MB 480-13466/62
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.720	J	1.0	0.46	mg/L			04/23/11 12:48	1

Lab Sample ID: LCS 480-13466/61
Matrix: Water
Analysis Batch: 13466

Client Sample ID: LCS 480-13466/61
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	25.0	26.73		mg/L		107	90 - 110

Lab Sample ID: MB 480-13801/7
Matrix: Water
Analysis Batch: 13801

Client Sample ID: MB 480-13801/7
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			04/26/11 12:03	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 480-13801/6
Matrix: Water
Analysis Batch: 13801

Client Sample ID: LCS 480-13801/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	25.0	26.92		mg/L		108	90 - 110

Lab Sample ID: 480-4134-3 MS
Matrix: Water
Analysis Batch: 13801

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	683		20.0	685.9	4	mg/L		13	74 - 131

Lab Sample ID: 480-4134-3 DU
Matrix: Water
Analysis Batch: 13801

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	683		674.6		mg/L		1	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 480-13434/3
Matrix: Water
Analysis Batch: 13434

Client Sample ID: MB 480-13434/3
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.10	0.052	mg/L			04/23/11 11:25	1

Lab Sample ID: LCS 480-13434/4
Matrix: Water
Analysis Batch: 13434

Client Sample ID: LCS 480-13434/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfide	0.750	0.752		mg/L		100	90 - 110

Lab Sample ID: 480-3974-1 DU
Matrix: Water
Analysis Batch: 13434

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-14084/3
Matrix: Water
Analysis Batch: 14084

Client Sample ID: MB 480-14084/3
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.10	0.052	mg/L			04/28/11 14:10	1

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: LCS 480-14084/4
Matrix: Water
Analysis Batch: 14084

Client Sample ID: LCS 480-14084/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfide	0.750	0.681		mg/L		91	90 - 110

GC/MS VOA

Analysis Batch: 13096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13096/4	LCS 480-13096/4	Total/NA	Water	8260B	
MB 480-13096/5	MB 480-13096/5	Total/NA	Water	8260B	
480-3974-1	MW-12	Total/NA	Water	8260B	

Analysis Batch: 13396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13396/4	LCS 480-13396/4	Total/NA	Water	8260B	
MB 480-13396/5	MB 480-13396/5	Total/NA	Water	8260B	
480-4057-1	MW-15	Total/NA	Water	8260B	
480-4057-2	MW-11	Total/NA	Water	8260B	
480-4057-3	MW-13	Total/NA	Water	8260B	
480-4057-3 MS	MW-13	Total/NA	Water	8260B	
480-4057-3 MSD	MW-13	Total/NA	Water	8260B	
480-4057-4	MW-14	Total/NA	Water	8260B	
480-4057-5	MW-10	Total/NA	Water	8260B	
480-4057-6	TRIP BLANK	Total/NA	Water	8260B	

Analysis Batch: 13484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13484/4	LCS 480-13484/4	Total/NA	Water	8260B	
MB 480-13484/5	MB 480-13484/5	Total/NA	Water	8260B	
480-4057-5 - DL	MW-10	Total/NA	Water	8260B	
480-4057-5 MS	MW-10	Total/NA	Water	8260B	
480-4057-5 MSD	MW-10	Total/NA	Water	8260B	

Analysis Batch: 14166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-14166/3	LCS 480-14166/3	Total/NA	Water	8260B	
MB 480-14166/4	MB 480-14166/4	Total/NA	Water	8260B	
480-4134-1	MW-9	Total/NA	Water	8260B	
480-4134-4	DUP	Total/NA	Water	8260B	
480-4134-5	MW-4	Total/NA	Water	8260B	

Analysis Batch: 14403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-14403/3	LCS 480-14403/3	Total/NA	Water	8260B	
MB 480-14403/4	MB 480-14403/4	Total/NA	Water	8260B	
480-4134-1 - DL	MW-9	Total/NA	Water	8260B	
480-4134-2	MW-7	Total/NA	Water	8260B	
480-4134-3	MW-8	Total/NA	Water	8260B	

Analysis Batch: 14429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-14429/4	LCS 480-14429/4	Total/NA	Water	8260B	
MB 480-14429/5	MB 480-14429/5	Total/NA	Water	8260B	
480-4134-2 - DL	MW-7	Total/NA	Water	8260B	
480-4134-3 - DL	MW-8	Total/NA	Water	8260B	
480-4134-4 - DL	DUP	Total/NA	Water	8260B	
480-4134-5 - DL	MW-4	Total/NA	Water	8260B	
480-4134-6	BLANK	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 13134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13134/2	MB 480-13134/2	Total/NA	Water	RSK-175	
LCS 480-13134/3	LCS 480-13134/3	Total/NA	Water	RSK-175	
480-3974-1	MW-12	Total/NA	Water	RSK-175	

Analysis Batch: 13662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13662/3	MB 480-13662/3	Total/NA	Water	RSK-175	
LCS 480-13662/4	LCS 480-13662/4	Total/NA	Water	RSK-175	
480-4057-1	MW-15	Total/NA	Water	RSK-175	
480-4057-2	MW-11	Total/NA	Water	RSK-175	
480-4057-3	MW-13	Total/NA	Water	RSK-175	
480-4057-3 MS	MW-13	Total/NA	Water	RSK-175	
480-4057-4	MW-14	Total/NA	Water	RSK-175	
480-4057-5	MW-10	Total/NA	Water	RSK-175	

Analysis Batch: 13993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13993/2	MB 480-13993/2	Total/NA	Water	RSK-175	
LCS 480-13993/3	LCS 480-13993/3	Total/NA	Water	RSK-175	
LCSD 480-13993/4	LCSD 480-13993/4	Total/NA	Water	RSK-175	
480-4134-1	MW-9	Total/NA	Water	RSK-175	
480-4134-2	MW-7	Total/NA	Water	RSK-175	
480-4134-3	MW-8	Total/NA	Water	RSK-175	
480-4134-4	DUP	Total/NA	Water	RSK-175	
480-4134-5	MW-4	Total/NA	Water	RSK-175	

Metals

Prep Batch: 13057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13057/1-A	MB 480-13057/1-A	Total/NA	Water	3005A	
LCS 480-13057/2-A	LCS 480-13057/2-A	Total/NA	Water	3005A	
480-3974-1	MW-12	Total/NA	Water	3005A	

Analysis Batch: 13232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13057/1-A	MB 480-13057/1-A	Total/NA	Water	6010B	13057
LCS 480-13057/2-A	LCS 480-13057/2-A	Total/NA	Water	6010B	13057
480-3974-1	MW-12	Total/NA	Water	6010B	13057

Prep Batch: 13489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13489/1-A	MB 480-13489/1-A	Total/NA	Water	3005A	
LCS 480-13489/2-A	LCS 480-13489/2-A	Total/NA	Water	3005A	
480-4057-1	MW-15	Total/NA	Water	3005A	
480-4057-2	MW-11	Total/NA	Water	3005A	
480-4057-3	MW-13	Total/NA	Water	3005A	
480-4057-3	MW-13	Total/NA	Water	3005A	
480-4057-4	MW-14	Total/NA	Water	3005A	
480-4057-5	MW-10	Total/NA	Water	3005A	
480-4057-5	MW-10	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 13639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13639/1-A	MB 480-13639/1-A	Total/NA	Water	3005A	
LCS 480-13639/2-A	LCS 480-13639/2-A	Total/NA	Water	3005A	
480-4134-1	MW-9	Total/NA	Water	3005A	
480-4134-1	MW-9	Total/NA	Water	3005A	
480-4134-2	MW-7	Total/NA	Water	3005A	
480-4134-2	MW-7	Total/NA	Water	3005A	
480-4134-3	MW-8	Total/NA	Water	3005A	
480-4134-4	DUP	Total/NA	Water	3005A	
480-4134-4	DUP	Total/NA	Water	3005A	
480-4134-5	MW-4	Total/NA	Water	3005A	
480-4134-5	MW-4	Total/NA	Water	3005A	

Analysis Batch: 13647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13489/1-A	MB 480-13489/1-A	Total/NA	Water	6010B	13489
LCS 480-13489/2-A	LCS 480-13489/2-A	Total/NA	Water	6010B	13489
480-4057-1	MW-15	Total/NA	Water	6010B	13489
480-4057-2	MW-11	Total/NA	Water	6010B	13489
480-4057-3	MW-13	Total/NA	Water	6010B	13489
480-4057-4	MW-14	Total/NA	Water	6010B	13489
480-4057-5	MW-10	Total/NA	Water	6010B	13489

Analysis Batch: 13814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13639/1-A	MB 480-13639/1-A	Total/NA	Water	6010B	13639
LCS 480-13639/2-A	LCS 480-13639/2-A	Total/NA	Water	6010B	13639
480-4134-1	MW-9	Total/NA	Water	6010B	13639
480-4134-2	MW-7	Total/NA	Water	6010B	13639
480-4134-3	MW-8	Total/NA	Water	6010B	13639
480-4134-4	DUP	Total/NA	Water	6010B	13639
480-4134-5	MW-4	Total/NA	Water	6010B	13639

Analysis Batch: 13816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4057-3	MW-13	Total/NA	Water	6010B	13489
480-4057-5	MW-10	Total/NA	Water	6010B	13489

Analysis Batch: 13986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4134-1	MW-9	Total/NA	Water	6010B	13639
480-4134-2	MW-7	Total/NA	Water	6010B	13639
480-4134-4	DUP	Total/NA	Water	6010B	13639
480-4134-5	MW-4	Total/NA	Water	6010B	13639

General Chemistry

Analysis Batch: 13039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-3974-1	MW-12	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 13040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-3974-1	MW-12	Total/NA	Water	353.2	

Analysis Batch: 13139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13139/152	MB 480-13139/152	Total/NA	Water	350.1	
LCS 480-13139/153	LCS 480-13139/153	Total/NA	Water	350.1	
480-3974-1	MW-12	Total/NA	Water	350.1	

Analysis Batch: 13192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13192/66	LCS 480-13192/66	Total/NA	Water	9038	
MB 480-13192/67	MB 480-13192/67	Total/NA	Water	9038	
480-3974-1	MW-12	Total/NA	Water	9038	

Analysis Batch: 13193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13193/52	LCS 480-13193/52	Total/NA	Water	SM 4500 Cl- E	
MB 480-13193/53	MB 480-13193/53	Total/NA	Water	SM 4500 Cl- E	
480-3974-1	MW-12	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 13377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13377/3	MB 480-13377/3	Total/NA	Water	353.2	
LCS 480-13377/4	LCS 480-13377/4	Total/NA	Water	353.2	
480-4057-1	MW-15	Total/NA	Water	353.2	
480-4057-2	MW-11	Total/NA	Water	353.2	
480-4057-3	MW-13	Total/NA	Water	353.2	
480-4057-4	MW-14	Total/NA	Water	353.2	
480-4134-1	MW-9	Total/NA	Water	353.2	

Analysis Batch: 13434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13434/3	MB 480-13434/3	Total/NA	Water	SM 4500 S2 D	
LCS 480-13434/4	LCS 480-13434/4	Total/NA	Water	SM 4500 S2 D	
480-3974-1	MW-12	Total/NA	Water	SM 4500 S2 D	
480-3974-1 DU	MW-12	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 13464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13464/3	LCS 480-13464/3	Total/NA	Water	350.1	
MB 480-13464/4	MB 480-13464/4	Total/NA	Water	350.1	
480-4057-1	MW-15	Total/NA	Water	350.1	
480-4057-2	MW-11	Total/NA	Water	350.1	
480-4057-3	MW-13	Total/NA	Water	350.1	
480-4057-4	MW-14	Total/NA	Water	350.1	
480-4057-5	MW-10	Total/NA	Water	350.1	

Analysis Batch: 13465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13465/16	LCS 480-13465/16	Total/NA	Water	9038	
MB 480-13465/17	MB 480-13465/17	Total/NA	Water	9038	
480-4057-1	MW-15	Total/NA	Water	9038	

General Chemistry (Continued)

Analysis Batch: 13465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4057-2	MW-11	Total/NA	Water	9038	
480-4057-3	MW-13	Total/NA	Water	9038	
480-4057-4	MW-14	Total/NA	Water	9038	
480-4057-5	MW-10	Total/NA	Water	9038	

Analysis Batch: 13466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13466/61	LCS 480-13466/61	Total/NA	Water	SM 4500 Cl- E	
MB 480-13466/62	MB 480-13466/62	Total/NA	Water	SM 4500 Cl- E	
480-4057-2	MW-11	Total/NA	Water	SM 4500 Cl- E	
480-4057-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
480-4057-5	MW-10	Total/NA	Water	SM 4500 Cl- E	
480-4057-3	MW-13	Total/NA	Water	SM 4500 Cl- E	
480-4057-4	MW-14	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 13572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13572/27	MB 480-13572/27	Total/NA	Water	SM 2320B	
LCS 480-13572/28	LCS 480-13572/28	Total/NA	Water	SM 2320B	
480-4057-1	MW-15	Total/NA	Water	SM 2320B	
480-4057-2	MW-11	Total/NA	Water	SM 2320B	
480-4057-3	MW-13	Total/NA	Water	SM 2320B	
480-4057-4	MW-14	Total/NA	Water	SM 2320B	
480-4057-5	MW-10	Total/NA	Water	SM 2320B	

Analysis Batch: 13590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-13590/147	MB 480-13590/147	Total/NA	Water	350.1	
LCS 480-13590/148	LCS 480-13590/148	Total/NA	Water	350.1	
480-4134-1	MW-9	Total/NA	Water	350.1	
480-4134-2	MW-7	Total/NA	Water	350.1	
480-4134-3	MW-8	Total/NA	Water	350.1	
480-4134-4	DUP	Total/NA	Water	350.1	
480-4134-5	MW-4	Total/NA	Water	350.1	

Analysis Batch: 13657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13657/4	LCS 480-13657/4	Total/NA	Water	9038	
MB 480-13657/5	MB 480-13657/5	Total/NA	Water	9038	
480-4134-1	MW-9	Total/NA	Water	9038	
480-4134-4	DUP	Total/NA	Water	9038	
480-4134-5	MW-4	Total/NA	Water	9038	
480-4134-2	MW-7	Total/NA	Water	9038	
480-4134-3	MW-8	Total/NA	Water	9038	

Analysis Batch: 13660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13660/3	LCS 480-13660/3	Total/NA	Water	SM 2320B	
MB 480-13660/4	MB 480-13660/4	Total/NA	Water	SM 2320B	
480-3974-1	MW-12	Total/NA	Water	SM 2320B	
480-4134-1	MW-9	Total/NA	Water	SM 2320B	
480-4134-2	MW-7	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 13660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4134-3	MW-8	Total/NA	Water	SM 2320B	
480-4134-4	DUP	Total/NA	Water	SM 2320B	
480-4134-5	MW-4	Total/NA	Water	SM 2320B	

Analysis Batch: 13793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4057-5	MW-10	Total/NA	Water	353.2	
480-4134-2	MW-7	Total/NA	Water	353.2	
480-4134-3	MW-8	Total/NA	Water	353.2	
480-4134-4	DUP	Total/NA	Water	353.2	
480-4134-5	MW-4	Total/NA	Water	353.2	

Analysis Batch: 13794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4057-1	MW-15	Total/NA	Water	353.2	
480-4057-2	MW-11	Total/NA	Water	353.2	
480-4057-3	MW-13	Total/NA	Water	353.2	
480-4057-4	MW-14	Total/NA	Water	353.2	
480-4057-5	MW-10	Total/NA	Water	353.2	
480-4134-1	MW-9	Total/NA	Water	353.2	
480-4134-2	MW-7	Total/NA	Water	353.2	
480-4134-3	MW-8	Total/NA	Water	353.2	
480-4134-4	DUP	Total/NA	Water	353.2	
480-4134-5	MW-4	Total/NA	Water	353.2	

Analysis Batch: 13801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-13801/6	LCS 480-13801/6	Total/NA	Water	SM 4500 Cl- E	
MB 480-13801/7	MB 480-13801/7	Total/NA	Water	SM 4500 Cl- E	
480-4134-4	DUP	Total/NA	Water	SM 4500 Cl- E	
480-4134-5	MW-4	Total/NA	Water	SM 4500 Cl- E	
480-4134-1	MW-9	Total/NA	Water	SM 4500 Cl- E	
480-4134-2	MW-7	Total/NA	Water	SM 4500 Cl- E	
480-4134-3	MW-8	Total/NA	Water	SM 4500 Cl- E	
480-4134-3 DU	MW-8	Total/NA	Water	SM 4500 Cl- E	
480-4134-3 MS	MW-8	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 14084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14084/3	MB 480-14084/3	Total/NA	Water	SM 4500 S2 D	
LCS 480-14084/4	LCS 480-14084/4	Total/NA	Water	SM 4500 S2 D	
480-4057-1	MW-15	Total/NA	Water	SM 4500 S2 D	
480-4057-2	MW-11	Total/NA	Water	SM 4500 S2 D	
480-4057-3	MW-13	Total/NA	Water	SM 4500 S2 D	
480-4057-4	MW-14	Total/NA	Water	SM 4500 S2 D	
480-4057-5	MW-10	Total/NA	Water	SM 4500 S2 D	
480-4134-1	MW-9	Total/NA	Water	SM 4500 S2 D	
480-4134-2	MW-7	Total/NA	Water	SM 4500 S2 D	
480-4134-3	MW-8	Total/NA	Water	SM 4500 S2 D	
480-4134-4	DUP	Total/NA	Water	SM 4500 S2 D	
480-4134-5	MW-4	Total/NA	Water	SM 4500 S2 D	

General Chemistry (Continued)

Analysis Batch: 14626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-14626/3	LCS 480-14626/3	Total/NA	Water	9060	
MB 480-14626/4	MB 480-14626/4	Total/NA	Water	9060	
480-4134-1	MW-9	Total/NA	Water	9060	
480-4134-3	MW-8	Total/NA	Water	9060	
480-4134-4	DUP	Total/NA	Water	9060	
LCS 480-14626/15	LCS 480-14626/15	Total/NA	Water	9060	
MB 480-14626/16	MB 480-14626/16	Total/NA	Water	9060	
480-4134-5	MW-4	Total/NA	Water	9060	

Analysis Batch: 15100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-15100/3	MB 480-15100/3	Total/NA	Water	9060	
LCS 480-15100/4	LCS 480-15100/4	Total/NA	Water	9060	
480-3974-1	MW-12	Total/NA	Water	9060	
480-3974-1 DU	MW-12	Total/NA	Water	9060	
480-4057-1	MW-15	Total/NA	Water	9060	
480-4057-2	MW-11	Total/NA	Water	9060	
480-4057-3	MW-13	Total/NA	Water	9060	
480-4057-4	MW-14	Total/NA	Water	9060	
480-4057-5	MW-10	Total/NA	Water	9060	
MB 480-15100/51	MB 480-15100/51	Total/NA	Water	9060	
LCS 480-15100/52	LCS 480-15100/52	Total/NA	Water	9060	
480-4134-2	MW-7	Total/NA	Water	9060	

Client Sample ID: MW-12

Lab Sample ID: 480-3974-1

Date Collected: 04/20/11 10:00

Matrix: Water

Date Received: 04/20/11 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13096	04/21/11 22:16	DC	TAL BUF
Total/NA	Analysis	RSK-175		20	13134	04/21/11 15:24	JM	TAL BUF
Total/NA	Prep	3005A			13057	04/21/11 10:30	MM	TAL BUF
Total/NA	Analysis	6010B		1	13232	04/21/11 18:58	LH	TAL BUF
Total/NA	Analysis	353.2		1	13039	04/20/11 20:20	RL	TAL BUF
Total/NA	Analysis	353.2		1	13040	04/20/11 20:20	RL	TAL BUF
Total/NA	Analysis	350.1		1	13139	04/21/11 13:52	JM	TAL BUF
Total/NA	Analysis	9038		5	13192	04/21/11 14:42		TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		100	13193	04/21/11 17:47		TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	13434	04/23/11 11:25	AP	TAL BUF
Total/NA	Analysis	SM 2320B		1	13660	04/25/11 14:27	KP	TAL BUF
Total/NA	Analysis	9060		1	15100	05/03/11 21:38	KP	TAL BUF

Client Sample ID: MW-15

Lab Sample ID: 480-4057-1

Date Collected: 04/21/11 09:10

Matrix: Water

Date Received: 04/21/11 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13396	04/23/11 19:04	LH	TAL BUF
Total/NA	Analysis	RSK-175		1	13662	04/26/11 11:01	JM	TAL BUF
Total/NA	Prep	3005A			13489	04/25/11 09:30	MM	TAL BUF
Total/NA	Analysis	6010B		1	13647	04/25/11 19:57	AH	TAL BUF
Total/NA	Analysis	353.2		1	13377	04/22/11 22:32	RL	TAL BUF
Total/NA	Analysis	350.1		1	13464	04/23/11 14:20	JR	TAL BUF
Total/NA	Analysis	9038		5	13465	04/23/11 13:01		TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		20	13466	04/23/11 13:04		TAL BUF
Total/NA	Analysis	SM 2320B		1	13572	04/23/11 19:11	KP	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	15100	05/04/11 00:40	KP	TAL BUF

Client Sample ID: MW-11

Lab Sample ID: 480-4057-2

Date Collected: 04/21/11 10:50

Matrix: Water

Date Received: 04/21/11 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13396	04/23/11 19:29	LH	TAL BUF
Total/NA	Analysis	RSK-175		1	13662	04/26/11 11:14	JM	TAL BUF
Total/NA	Prep	3005A			13489	04/25/11 09:30	MM	TAL BUF
Total/NA	Analysis	6010B		1	13647	04/25/11 20:00	AH	TAL BUF
Total/NA	Analysis	353.2		1	13377	04/22/11 22:33	RL	TAL BUF
Total/NA	Analysis	350.1		1	13464	04/23/11 14:23	JR	TAL BUF

Client Sample ID: MW-11

Date Collected: 04/21/11 10:50
Date Received: 04/21/11 16:45

Lab Sample ID: 480-4057-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		5	13465	04/23/11 13:01		TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		5	13466	04/23/11 12:56		TAL BUF
Total/NA	Analysis	SM 2320B		1	13572	04/23/11 19:20	KP	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	15100	05/04/11 01:08	KP	TAL BUF

Client Sample ID: MW-13

Date Collected: 04/21/11 12:00
Date Received: 04/21/11 16:45

Lab Sample ID: 480-4057-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13396	04/23/11 19:55	LH	TAL BUF
Total/NA	Analysis	RSK-175		10	13662	04/26/11 13:10	JM	TAL BUF
Total/NA	Prep	3005A			13489	04/25/11 09:30	MM	TAL BUF
Total/NA	Analysis	6010B		1	13647	04/25/11 20:02	AH	TAL BUF
Total/NA	Analysis	6010B		5	13816	04/26/11 20:53	AH	TAL BUF
Total/NA	Analysis	353.2		1	13377	04/22/11 22:34	RL	TAL BUF
Total/NA	Analysis	350.1		1	13464	04/23/11 14:24	JR	TAL BUF
Total/NA	Analysis	9038		5	13465	04/23/11 13:01		TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		50	13466	04/23/11 13:48		TAL BUF
Total/NA	Analysis	SM 2320B		1	13572	04/23/11 19:29	KP	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	15100	05/04/11 01:37	KP	TAL BUF

Client Sample ID: MW-14

Date Collected: 04/21/11 14:45
Date Received: 04/21/11 16:45

Lab Sample ID: 480-4057-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13396	04/23/11 21:10	LH	TAL BUF
Total/NA	Analysis	RSK-175		10	13662	04/26/11 13:52	JM	TAL BUF
Total/NA	Prep	3005A			13489	04/25/11 09:30	MM	TAL BUF
Total/NA	Analysis	6010B		1	13647	04/25/11 20:04	AH	TAL BUF
Total/NA	Analysis	353.2		1	13377	04/22/11 22:35	RL	TAL BUF
Total/NA	Analysis	350.1		1	13464	04/23/11 14:25	JR	TAL BUF
Total/NA	Analysis	9038		5	13465	04/23/11 13:01		TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		50	13466	04/23/11 13:48		TAL BUF
Total/NA	Analysis	SM 2320B		1	13572	04/23/11 19:37	KP	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF

Client Sample ID: MW-14

Lab Sample ID: 480-4057-4

Date Collected: 04/21/11 14:45

Matrix: Water

Date Received: 04/21/11 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		1	15100	05/04/11 02:05	KP	TAL BUF

Client Sample ID: MW-10

Lab Sample ID: 480-4057-5

Date Collected: 04/21/11 16:10

Matrix: Water

Date Received: 04/21/11 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13396	04/23/11 21:36	LH	TAL BUF
Total/NA	Analysis	8260B	DL	4	13484	04/25/11 12:41	CDC	TAL BUF
Total/NA	Analysis	RSK-175		20	13662	04/26/11 14:06	JM	TAL BUF
Total/NA	Prep	3005A			13489	04/25/11 09:30	MM	TAL BUF
Total/NA	Analysis	6010B		1	13647	04/25/11 20:06	AH	TAL BUF
Total/NA	Analysis	6010B		5	13816	04/26/11 20:56	AH	TAL BUF
Total/NA	Analysis	350.1		1	13464	04/23/11 14:26	JR	TAL BUF
Total/NA	Analysis	9038		10	13465	04/23/11 13:02		TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		100	13466	04/23/11 13:15		TAL BUF
Total/NA	Analysis	SM 2320B		1	13572	04/23/11 19:46	KP	TAL BUF
Total/NA	Analysis	353.2		1	13793	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	15100	05/04/11 02:34	KP	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-4057-6

Date Collected: 04/21/11 00:00

Matrix: Water

Date Received: 04/21/11 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	13396	04/23/11 22:01	LH	TAL BUF

Client Sample ID: MW-9

Lab Sample ID: 480-4134-1

Date Collected: 04/22/11 11:15

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	14166	04/29/11 11:43	JS	TAL BUF
Total/NA	Analysis	8260B	DL	40	14403	05/01/11 15:50	TRB	TAL BUF
Total/NA	Analysis	RSK-175		1	13993	04/28/11 11:22	MN	TAL BUF
Total/NA	Prep	3005A			13639	04/26/11 09:10	MM	TAL BUF
Total/NA	Analysis	6010B		1	13814	04/26/11 19:07	AH	TAL BUF
Total/NA	Analysis	6010B		5	13986	04/27/11 17:17	AH	TAL BUF
Total/NA	Analysis	353.2		1	13377	04/22/11 22:47	RL	TAL BUF
Total/NA	Analysis	350.1		1	13590	04/25/11 12:24	JM	TAL BUF
Total/NA	Analysis	9038		10	13657	04/26/11 08:04	KP	TAL BUF

Client Sample ID: MW-9

Lab Sample ID: 480-4134-1

Date Collected: 04/22/11 11:15

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	13660	04/25/11 15:06	KP	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		121	13801	04/26/11 15:13	JR	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	14626	04/29/11 06:45	KP	TAL BUF

Client Sample ID: MW-7

Lab Sample ID: 480-4134-2

Date Collected: 04/22/11 12:00

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5000	14403	05/01/11 16:15	TRB	TAL BUF
Total/NA	Analysis	8260B	DL	10000	14429	05/02/11 12:51	CDC	TAL BUF
Total/NA	Analysis	RSK-175		5	13993	04/28/11 13:42	MN	TAL BUF
Total/NA	Prep	3005A			13639	04/26/11 09:10	MM	TAL BUF
Total/NA	Analysis	6010B		1	13814	04/26/11 19:09	AH	TAL BUF
Total/NA	Analysis	6010B		10	13986	04/27/11 17:19	AH	TAL BUF
Total/NA	Analysis	350.1		1	13590	04/25/11 12:25	JM	TAL BUF
Total/NA	Analysis	9038		25	13657	04/26/11 08:23	KP	TAL BUF
Total/NA	Analysis	SM 2320B		1	13660	04/25/11 15:15	KP	TAL BUF
Total/NA	Analysis	353.2		1	13793	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		13	13801	04/26/11 15:13	JR	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	15100	05/05/11 00:59	KP	TAL BUF

Client Sample ID: MW-8

Lab Sample ID: 480-4134-3

Date Collected: 04/22/11 13:30

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	14403	05/01/11 16:39	TRB	TAL BUF
Total/NA	Analysis	8260B	DL	25	14429	05/02/11 13:16	CDC	TAL BUF
Total/NA	Analysis	RSK-175		5	13993	04/28/11 13:56	MN	TAL BUF
Total/NA	Prep	3005A			13639	04/26/11 09:10	MM	TAL BUF
Total/NA	Analysis	6010B		1	13814	04/26/11 19:14	AH	TAL BUF
Total/NA	Analysis	350.1		1	13590	04/25/11 12:26	JM	TAL BUF
Total/NA	Analysis	9038		25	13657	04/26/11 08:23	KP	TAL BUF
Total/NA	Analysis	SM 2320B		1	13660	04/25/11 15:23	KP	TAL BUF
Total/NA	Analysis	353.2		1	13793	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		21	13801	04/26/11 15:13	JR	TAL BUF

Client Sample ID: MW-8

Lab Sample ID: 480-4134-3

Date Collected: 04/22/11 13:30

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	14626	04/29/11 08:03	KP	TAL BUF

Client Sample ID: DUP

Lab Sample ID: 480-4134-4

Date Collected: 04/22/11 12:30

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	14166	04/29/11 12:58	JS	TAL BUF
Total/NA	Analysis	8260B	DL	1000	14429	05/02/11 13:41	CDC	TAL BUF
Total/NA	Analysis	RSK-175		500	13993	04/28/11 14:10	MN	TAL BUF
Total/NA	Prep	3005A			13639	04/26/11 09:10	MM	TAL BUF
Total/NA	Analysis	6010B		1	13814	04/26/11 19:16	AH	TAL BUF
Total/NA	Analysis	6010B		5	13986	04/27/11 17:26	AH	TAL BUF
Total/NA	Analysis	350.1		1	13590	04/25/11 12:27	JM	TAL BUF
Total/NA	Analysis	9038		10	13657	04/26/11 08:05	KP	TAL BUF
Total/NA	Analysis	SM 2320B		1	13660	04/25/11 15:31	KP	TAL BUF
Total/NA	Analysis	353.2		1	13793	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		121	13801	04/26/11 15:10	JR	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:10	AP	TAL BUF
Total/NA	Analysis	9060		1	14626	04/29/11 08:42	KP	TAL BUF

Client Sample ID: MW-4

Lab Sample ID: 480-4134-5

Date Collected: 04/22/11 15:50

Matrix: Water

Date Received: 04/22/11 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	14166	04/29/11 13:23	JS	TAL BUF
Total/NA	Analysis	8260B	DL	1000	14429	05/02/11 14:06	CDC	TAL BUF
Total/NA	Analysis	RSK-175		500	13993	04/28/11 14:24	MN	TAL BUF
Total/NA	Prep	3005A			13639	04/26/11 09:10	MM	TAL BUF
Total/NA	Analysis	6010B		1	13814	04/26/11 19:18	AH	TAL BUF
Total/NA	Analysis	6010B		5	13986	04/27/11 17:28	AH	TAL BUF
Total/NA	Analysis	350.1		1	13590	04/25/11 12:28	JM	TAL BUF
Total/NA	Analysis	9038		10	13657	04/26/11 08:10	KP	TAL BUF
Total/NA	Analysis	SM 2320B		1	13660	04/25/11 15:41	KP	TAL BUF
Total/NA	Analysis	353.2		1	13793	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	353.2		1	13794	04/22/11 22:16	RL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		121	13801	04/26/11 15:10	JR	TAL BUF
Total/NA	Analysis	SM 4500 S2 D		1	14084	04/28/11 14:55	AP	TAL BUF
Total/NA	Analysis	9060		1	14626	04/29/11 11:58	KP	TAL BUF

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: GM-Lockport Groundwater Sampling

TestAmerica Job ID: 480-3974-1

Client Sample ID: BLANK
Date Collected: 04/22/11 00:00
Date Received: 04/22/11 16:25

Lab Sample ID: 480-4134-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	14429	05/02/11 14:30	CDC	TAL BUF

Laboratory References:
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: GM-Lockport Groundwater Sampling

TestAmerica Job ID: 480-3974-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo		USDA		P330-08-00242
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: GM-Lockport Groundwater Sampling

TestAmerica Job ID: 480-3974-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9060	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 4500 S2 D	Sulfide, Total	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: GM-Lockport Groundwater Sampling

TestAmerica Job ID: 480-3974-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-3974-1	MW-12	Water	04/20/11 10:00	04/20/11 11:45
480-4057-1	MW-15	Water	04/21/11 09:10	04/21/11 16:45
480-4057-2	MW-11	Water	04/21/11 10:50	04/21/11 16:45
480-4057-3	MW-13	Water	04/21/11 12:00	04/21/11 16:45
480-4057-4	MW-14	Water	04/21/11 14:45	04/21/11 16:45
480-4057-5	MW-10	Water	04/21/11 16:10	04/21/11 16:45
480-4057-6	TRIP BLANK	Water	04/21/11 00:00	04/21/11 16:45
480-4134-1	MW-9	Water	04/22/11 11:15	04/22/11 16:25
480-4134-2	MW-7	Water	04/22/11 12:00	04/22/11 16:25
480-4134-3	MW-8	Water	04/22/11 13:30	04/22/11 16:25
480-4134-4	DUP	Water	04/22/11 12:30	04/22/11 16:25
480-4134-5	MW-4	Water	04/22/11 15:50	04/22/11 16:25
480-4134-6	BLANK	Water	04/22/11 00:00	04/22/11 16:25

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jen Davide	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-12282-2164.2
Client Contact: Mr. Christopher Boron	Phone: 716 570 5983	E Mail: denise.giglia@testamericainc.com		Page: Page 2 of 2
Company: GZA GeoEnvironmental, Inc.				Job #:
Address: 535 Washington Street 11th Floor	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14203				
Phone: 716 856 - 2300	PO #: Purchase Order Requested			
Email: christopher.boron@gza.com	WO #:			
Project Name: GM-Lockport Groundwater Sampling	Project #: 48004014			
Site: GM-Lockport	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - (MOD) Local Method	6010B - (MOD) TAL Metals ICP	8260B - (MOD) TCL list OLM04.2	9060 - (MOD) Local Method	RSK_175 - (MOD) Local Method	SM4500_S2_F - Sulfide	2320B - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	A	A	A	CB	N	X	
MW-12	4/20/11	1040	G	Water	N	N	X	X	X	X	X	X	X		
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/20/11 1145	Company	Received by:	Date/Time: 4/20/11 1145	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.2

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jen Davide	Lab PM: Giglia, Denise	Carrier Tracking No(s):
Client Contact: Mr. Christopher Boron	Phone: (716) 570-5983	E-Mail: denise.giglia@testamericainc.com	COC No: 430-13282-2184.1
Company: GZA GeoEnvironmental, Inc			Page: Page 1 of 2
Address: 535 Washington Street 11th Floor	Due Date Requested:	Analysis Requested	Job #: 21-005546 Task 4
City: Buffalo	TAT Requested (days):		Preservation Codes:
State, Zip: NY, 14203			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Phone: 344-7046	PO #: Purchase Order Requested		
Email: christopher.boron@gza.com	WO #:		Other:
Project Name: GM-Lockport Groundwater Sampling	Project #: 48004014		
Site: GMCH	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - (MOD) Local Method	9010B - (MOD) TAL Metals ICP	6010B - (MOD) TCL list DLM04.2	9060 - (MOD) Local Method	RSK_175 - (MOD) Local Method	SM4500_S2_F - Sulfide	2320B - Alkalinity, Total	Ammonia 350.1 Nitrate N/Nitrite	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	A	A	A	CB	N		X	
MW-15	4/21/11	9:10	G	Water	N		X	X	X	X	X	X	X	X	16	
MW-11	4/21/11	10:50	G	Water	N		X	X	X	X	X	X	X	X	16	
MW-13 (MS/MSD)	4/21/11	12:00	G	Water		X	X	X	X	X	X	X	X	X	24	MS / MSD
MW-14	4/21/11	14:45	G	Water	N		X	X	X	X	X	X	X	X	15	
MW-10	4/21/11	16:10	G	Water	N		X	X	X	X	X	X	X	X	16	
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 4/21/11 1647	Company	Received by:	Date/Time: 4/21/11 1645	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2°C

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jen Davola	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-12282-2164.1
Client Contact: Mr. Christopher Boron	Phone: (716) 570-5983	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: GZA GeoEnvironmental, Inc				Job #: 21-005546 Task 4
Address: 535 Washington Street 11th Floor	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14203				
Phone: 344-7046	PO #: Purchase Order Requested			
Email: christopher.boron@gza.com	WO #:			
Project Name: GM-Lockport Groundwater Sampling	Project #: 48004014			
Site: GMCH	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - (MOD) Local Method	6010B - (MOD) TAL Metals ICP	8260B - (MOD) TCL list OLM04.2	9060 - (MOD) Local Method	RSK_175 - (MOD) Local Method	SM4500_S2_F - Sulfide	2320B - Alkalinity, Total	Ammonia 350.1 Nitrate Nitrite				Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	A	A	A	CB	N					X	
MW-9	4/22/11	1145	G	Water	N		X	X	X	X	X	X	X	X	X			16	
MW-7	4/22/11	1205	G	Water	N		X	X	X	X	X	X	X	X	X			16	
MW-8	4/22/11	1330	G	Water	N		X	X	X	X	X	X	X	X	X			16	
DUP	4/22/11	1200	G	Water	N		X	X	X	X	X	X	X	X	X			16	
MW-4	4/22/11	1550	G	Water	N		X	X	X	X	X	X	X	X	X			16	
Blank				Water															
				Water															
				Water															
				Water															
				Water															
				Water															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time: 4/22/11 1625	Company	Received by	Date/Time: 4/22/11 1625	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.5

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 480-3974-1

Login Number: 3974
List Number: 1
Creator: Rabb, Mike

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CRA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 480-3974-1

Login Number: 4057

List Source: TestAmerica Buffalo

List Number: 1

Creator: Szymanski, Andrew

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 480-3974-1

Login Number: 4134
List Number: 1
Creator: Rabb, Mike

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

APPENDIX C

SJB SERVICES, INC.
Contract Drilling and Testing

CORPORATE/ BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

ALBANY OFFICE
PO Box 2199
Ballston Spa, NY 12020

5 Knabner Road
Mechanicville, NY 12118
Phone: (518) 899-7491
Fax: (518) 899-7496

CORTLAND OFFICE
60 Miller Street
Cortland, NY 13045
Phone: (607) 758-7182
Fax: (607) 758-7188

ROCHESTER OFFICE
535 Summit Point Drive
Henrietta, NY 14467
Phone: (585) 359-2730
Fax: (585) 359-9668

BD-11-077
June 1, 2011

ATSI Engineering Services
415 Commerce Drive
Amherst, New York 14228-2304

Phone: 716-691-9200
Fax: 716-691-7221
Email: leahey@atsi.com

Attention: Mark Leahey
Project Manager

Reference: Summary Report for Bedrock Probe Exploration
Delphi Facility
Lockport, New York

Dear Mark,

SJB Services, Inc. (SJB) recently completed bedrock probe exploration services at the Delphi Facility in Lockport, New York, as per our proposal PBD-11-102 dated May 11, 2011 and your purchase order number 5-80540-03 dated May 16, 2011. SJB used a Geoprobe Model 6620DT on May 19, and 20, 2011 to advance probes at 36 locations using direct push techniques. Each probe was advanced to practical refusal, which is assumed to indicate top of bedrock.

The refusal depths at the 36 locations are presented on the attached table.

We appreciate the opportunity to provide services for this project. If you have any questions or need anything further, please contact our office at any time.

Sincerely,
SJB SERVICES, INC.

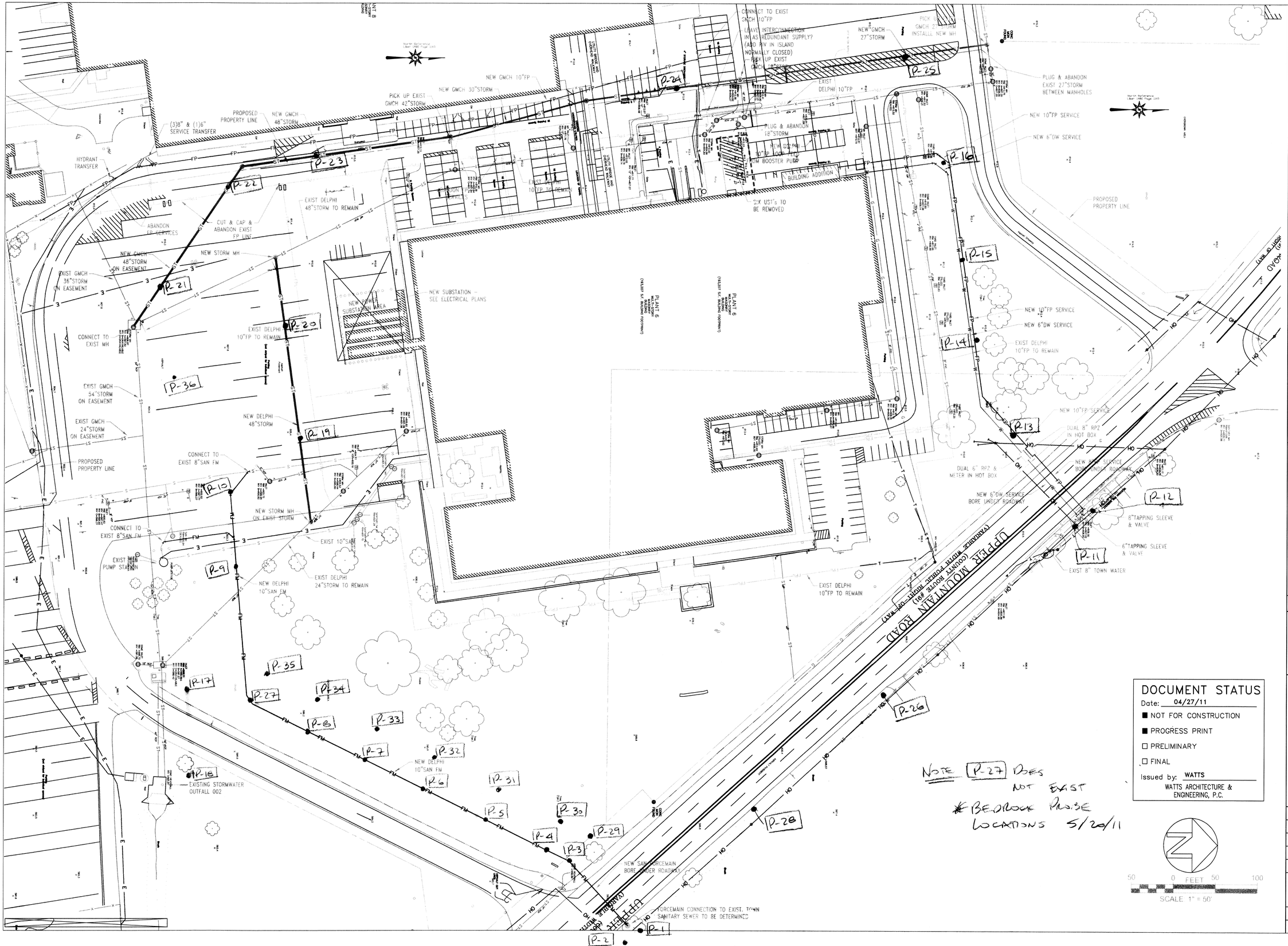
David Steiner, MD

David R. Steiner
Senior Engineering Geologist

Attachment: Table of Probe Refusal Depths

Delphi Bedrock Exploration
May 2011

Location ID	Depth of Probe Refusal (feet)
P-1	7.2
P-2	7.7
P-3	4.1
P-4	4.7
P-5	3.7
P-6	4.3
P-7	4.9
P-8	4.3
P-9	8.5
P-10	7.9
P-11	12.5
P-12	12.6
P-13	12.2
P-14	12.9
P-15	11.2
P-16	11.2
P-17	9.7
P-18	8.7
P-19	5.4
P-20	7.4
P-21	10.0
P-22	9.8
P-23	12.9
P-24	10.4
P-25	12.3
P-26	8.3
P-27	5.9
P-28	5.7
P-29	3.7
P-30	5.3
P-31	4.2
P-32	5.7
P-33	8.0
P-34	4.3
P-35	6.4
P-36	9.8

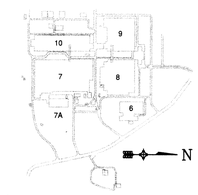


NOTE P-27 DOES NOT EXIST
* BEDROCK PROBE LOCATIONS 5/26/11

50 0 FEET 50 100
SCALE 1" = 50'

BY	DATE	REVISIONS	REV. NO.	REFERENCE DRAWINGS

DELPHI
Thermal and Interior



KEY PLAN

PLANT ENGINEERING
DELPHI
THERMAL AND INTERIOR SYSTEMS
LOCKPORT, N.Y.

BUILDING 6
SITE SEPARATION
MASTER SITE UTILITY PLAN

DOCUMENT STATUS
Date: 04/27/11
■ NOT FOR CONSTRUCTION
■ PROGRESS PRINT
☐ PRELIMINARY
☐ FINAL
Issued by: WATTS
WATTS ARCHITECTURE & ENGINEERING, P.C.

DFT.	WATTS
CK.	AGM
APP'D	
DATE	04/27/11
SCALE	1" = 50'
DWG. NO.	C120
SHEET NO.	1 OF 1
CAD FILE NO.	

0970

EXCAVATION PERMIT

(This permit required for all underground excavation as well as holes through floors, walls or ceilings)

▼ BE ALERT TO THESE DANGERS ▼

CIRCLE UTILITIES IN AREA

ELECTRIC • GAS • STEAM • WATER
SEWERS • GASOLINE • PAINT
AIR • OTHER _____

DATE ISSUED
5-19-11

NATURE OF JOB
CORE BORINGS

LOCATION
BLDG./BAY 6 / VARIOUS

PRINT NO.
C-120

APPROX. DURATION OF JOB	ESTIMATED START	ESTIMATED FINISH
2 DAYS	5-19-11	5-20-11

We, the undersigned, have carefully checked the conditions surrounding the above job. We are thoroughly familiar with Safety Operating Regulations and Special Precautions (see reverse side) and with all utility lines, both visible and concealed, that are located in the vicinity of this job.

DESCRIPTION OF UTILITY LINES (ATTACH SKETCH IF NECESSARY)

ACTUAL START DATE	ACTUAL FINISH DATE
5/19/11	5/20/11
MAINT. SUPERVISOR: John Franklin	CONTRACTOR: EJB Services
PLANT ENGINEERING: 5-19-11	SAFETY DEPT.

THIS PERMIT MUST BE CONSPICUOUSLY DISPLAYED AT THE JOB

RETURN TO PLANT ENGINEERING AFTER APPROVALS H-1297-9/95