April 23, 2007

US EPA RECORDS CENTER REGION 5
489508

**CERTIFIED MAIL NO. 7003 0500 0003 3623 3296**

Kenneth Theisen (HSE-5J)
USEPA - Region 5
77 West Jackson Blvd
Chicago, IL 60604-3590

**RE: ACCRA PAC / WARNER BAKER SITE**
**CIVIL ACTION #H89-0113**
**Semi-Annual Progress Report**

Dear Mr. Theisen:

**Transmitted herewith is the Semi-Annual Progress Report with the enclosed Semi-Annual Groundwater Monitoring Report for the Accra Pac Group / Warner Baker property (the Site) located at 2626 Industrial Parkway in Elkhart, Indiana.** This Semi-Annual Progress Report is submitted by Heartland Environmental Associates, Inc., (Heartland) in accordance with the Consent Decree and with your subsequent instructions concerning the submittal of progress reports.

## System Operation

The sparge and SVE systems were shut down on November 27, 2006, and were not operated during the 2006-2007 winter season in order to avoid the risk of cold weather damage to the systems. Both systems were restarted on March 14, 2007, and operated until March 29, 2007, when they were shut down prior to the April 2, 2007, sampling event. The sparge and vapor extraction systems were re-started on April 2, 2007, after completion of the April 2007 sampling event. Since then, the systems have been in continuous operation. It is anticipated that the systems will be operated into November 2007 until weather conditions present a significant threat of freeze damage.

## Sampling Results

The results of the most recent semi-annual groundwater monitoring, which was conducted on April 2, 2007, are provided in the enclosed Semi-Annual Groundwater Monitoring Report. As is indicated in the report, clean-up objectives have not yet been met. The most significant contaminant concentrations are present in monitoring well MW-15 and monitoring well MW-10B, which lies downgradient. In order to target this area of contamination, two additional sparge wells were installed in 2004. The new sparge wells were placed at a

shallower depth (45 feet) than the original sparge wells (65 feet). This is an effort to reach an area where the effectiveness of the existing, deeper wells may have been limited by the complex geology of the southwest corner of the Site. The new sparge wells operated with the systems during 2005, 2006 and 2007. The results for the previous September 2005 monitoring event indicated a decrease of total Compliance VOC when compared to the earlier September 2004 and March 2005 results. Most of the decrease in Compliance VOC during 2005 occurred at wells MW-10B and MW-15, indicating that the operation of the two additional sparge wells installed in 2004 may have had a significant and positive effect on the remediation efforts. The results of the March 2006 monitoring event indicated that total Compliance VOC concentrations increased to levels slightly higher than before the two additional sparge wells were installed in 2004, and it was reasoned that the increase in March 2006 was a rebound effect likely caused by the systems being shutdown during the 2005-2006 winter season. The subsequent September 2006 results indicated that the Compliance VOC concentrations decreased substantially relative to the March 2006 results to levels similar to the previous September 2005 results. This suggested that the increase in March 2006 was a rebound effect related to the systems being shutdown for the winter and that the operation of the systems during 2006 had an overall positive effect on reducing the Compliance VOC concentrations. The most current results from April 2007 indicate that the Compliance VOC concentrations are slightly higher than the previous September 2006 results. This indicates the same pattern as observed for the preceding two seasons of slightly increased concentrations in the spring following the winter shutdown of the systems. This is consistent with the interpretation that the Compliance VOC concentrations rebound somewhat after the systems are shutdown for the winter and will likely decrease again following system operation in 2007.

## Clean Up Progress and Closure Status

Compliance VOC concentration at the site is presently at roughly 13% of the baseline concentration (87% removal). The established groundwater cleanup standard for this site is 5% of baseline concentration (95% removal). Accra Pac will continue to operate the groundwater remediation systems. The enclosed figure, titled "Groundwater Cleanup Progress," charts the progress of the groundwater cleanup at this site since 1999.

## Deliverables

The next semi-annual progress report will be submitted after the results of the September 2007 semi-annual groundwater monitoring are available.

Should you have any questions concerning this report or its enclosures, please feel free to call me at (574) 289-1191 or email me at jcsporleder@heartlandenv.com .

Sincerely,

HEARTLAND ENVIRONMENTAL ASSOCIATES, INC.

J. C. Sporleder, L.P.G.
Senior Project Geologist

JCS:jcs

Enclosures:

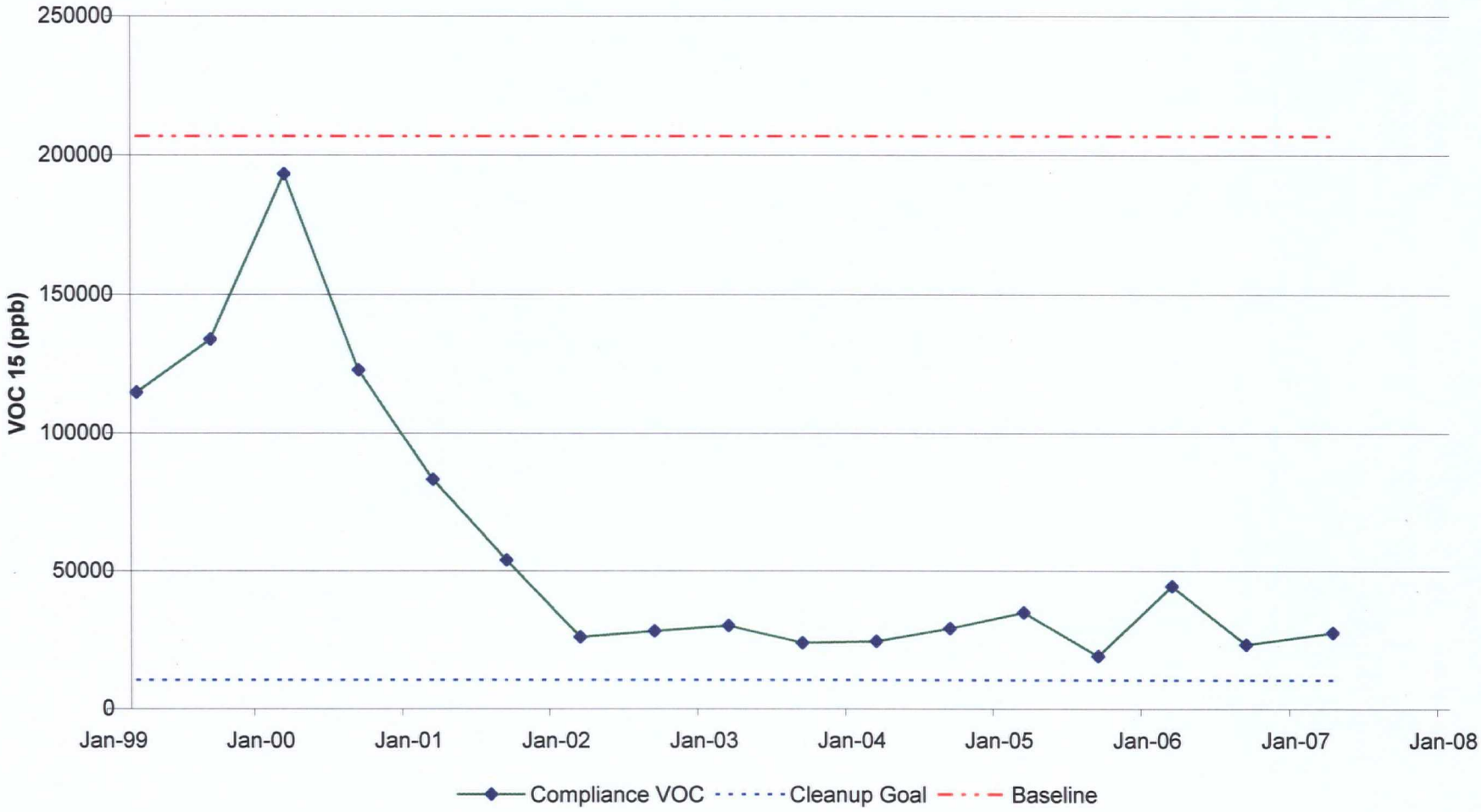
- Groundwater Cleanup Progress Chart.
- Semi-Annual Groundwater Monitoring Report.

cc: John Wingard, Accra Pac Group
Malcolm J. Tuesley, Esq.

# GROUNDWATER CLEANUP PROGRESS CHART

1092-0701-01-40000-RPT070423JCS

# Groundwater Cleanup Progress
# Warner Baker Site
# VOC 15 Site Total




1092-0701-01-40740-FIG060420JCS

# SEMI-ANNUAL GROUNDWATER MONITORING REPORT

1092-0701-01-40000-RPT070423JCS

# SEMI-ANNUAL
# GROUNDWATER MONITORING
# APRIL 2007
# 2626 INDUSTRIAL PARKWAY
# ELKHART, INDIANA

**APRIL 23, 2007**

**PREPARED FOR**
**KIK CUSTOM PRODUCTS / ACCRA PAC GROUP**

**PREPARED BY**
**HEARTLAND ENVIRONMENTAL ASSOCIATES, INC.**
**3410 MISHAWAKA AVENUE**
**SOUTH BEND, INDIANA 46615**

J. C. Sporleder, L.P.G.
Senior Project Geologist

John A. Sill, C.E.I.
President

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# 1.0 INTRODUCTION

This report concerns the April 2, 2007, semi-annual groundwater monitoring conducted by Heartland Environmental Associates, Inc., (Heartland) of South Bend, Indiana, for the property located at 2626 Industrial Parkway, Elkhart, Indiana (the Site). The monitoring was performed by Heartland in accordance with the May 13, 1996, EIS Environmental Engineers, Inc., (EIS) report "Predesign and Compliance Monitoring Plan, Accra Pac Group/Warner Baker Site consent Decree, Civil Action No. H89-0113." Baseline groundwater monitoring was previously conducted by EIS on September 30, 1996. A report concerning the baseline-monitoring event was submitted by EIS to the US EPA on October 31, 1996.

The vapor extraction system was installed at the Site in accordance with the Final Design Submittal dated November 25, 1997. The operation of the vapor extraction system was initiated on June 25, 1998. A sparge system was installed at the Site during June 2000 and began operation on July 15, 2000. With the exception of the winter of 2003-2004, when the sparge system was operated through the winter, these systems have operated during the spring, summer and fall seasons and have been shut off during the winter season. Two additional sparge wells were installed at the Site in October 2004, and became operational on November 1, 2004. The sparge and vapor extraction systems were shut down for the winter season on November 27, 2006, and were restarted on March 14, 2007. The sparge and vapor extraction systems were in operation from March 14, 2007, until March 29, 2007, when they were shut down prior to the April 2, 2007, sampling event. Therefore, the sparge and vapor extraction systems had not been in operation for at least twenty four (24) hours prior to the April 2, 2007, sampling event. The sparge and vapor extraction systems were re-started on April 2, 2007, after completion of the sampling event. The system will be operated for the rest of 2007 until weather conditions present a significant threat of freeze damage.

The purpose of the semi-annual monitoring is to determine groundwater contamination concentrations at compliance wells for comparison to the baseline groundwater test results in order to determine when groundwater remediation is complete. Table 1.1 lists the monitoring wells used for baseline and compliance groundwater monitoring.

This report has been prepared by Heartland on behalf of KIK Custom Products / Accra Pac Group.

## TABLE 1.1
## MONITORING WELLS FOR BASELINE AND COMPLIANCE MONITORING

| WELL ID | SCREENED DEPTH BELOW GRADE (feet) | RELATIVE LOCATION OF WELL | PURPOSE |
|---|---|---|---|
| MW-1 | 16.3 - 26.3[1] | Upgradient of site | Baseline |
| MW-4 | 16.8 - 26.8[1] | Downgradient center of site | Baseline, Compliance |
| MW-7 | 30.0 - 40.0 | Downgradient, northeast corner of site | Baseline, Compliance |
| MW-10B | 49.5 - 54.5 | Downgradient, northwest corner of site | Baseline, Compliance |
| MW-14 | 41.5 - 46.5 | Adjacent to east pit | Baseline, Compliance |
| MW-15 | 39.7 - 44.7 | Adjacent to west pit | Baseline, Compliance |

Notes:

(1) The screened depths for wells MW-1 and MW-4 are estimated from measured well depths and assume a ten-foot screened interval at the bottom of each well.

## 2.0 FIELD SAMPLING INFORMATION

Heartland collected groundwater samples on April 2, 2007, from the compliance monitoring wells MW-4, MW-7, MW-10B, MW-14 and MW-15 at the Site. A field duplicate with extra volume for matrix spike/duplicate matrix spike analysis was collected from well MW-7. Each sample was collected with a Teflon bailer immediately after purging three well volumes of water with a PVC bailer. The sampling equipment was washed with non-phosphate detergent and triple rinsed with de-ionized water prior to each collection. The purge water was contained on-site for subsequent off-site disposal. Details regarding the collection of each sample were recorded on monitoring well sampling forms which are provided in Appendix C.

Chain-of-custody records were maintained by Heartland staff and are provided in Appendix B. All samples were shipped overnight for morning delivery on April 3, 2007, to the TestAmerica, Inc., laboratory in Dayton, Ohio.

## 3.0 GROUNDWATER FLOW DIRECTIONS

On April 2, 2007, Heartland determined the static water levels (SWL) at the Site by measuring the depth to groundwater from the top of well casings to 0.01 foot. The SWL were measured at 13 wells at the Site, at well MW-1 located south of the Site, and at wells MW-12 and MW-13 located on the property adjacent to the east side of the Site. The SWL depth measurements for all 16 wells were completed in about a one-hour period of time and prior to the start of well sampling activities. The vapor extraction and sparge systems were shut off for at least 24 hours prior to measuring the SWL. Table 3.1 provides a summary of the SWL data. Figure 3.1 shows the SWL surface contours and groundwater flow directions at the Site as indicated by the April 2, 2007, SWL data. The groundwater flow directions show that compliance wells MW-7, MW-10B, MW-14 and MW-15 are generally downgradient with respect to the previously identified contaminant source areas in the vicinity of the two pits at the Site.

## TABLE 3.1
## STATIC WATER LEVEL DEPTH AND ELEVATION BASELINE DATA
## APRIL 2, 2007

| Well I.D. | Time of Check | SWL Depth from TOC[2] (Feet) | TOC[3] [4] Elev. (Feet, N.G.V.D.) | SWL[4] Elev. (Feet, N.G.V.D.) |
|---|---|---|---|---|
| MW-1 | 10:00 A.M. | 10.67 | 755.75 | 745.08 |
| MW-3 | 10:36 A.M. | 11.65 | 756.41 | 744.76 |
| MW-4 | 10:39 A.M. | 11.35 | 756.115 | 744.77 |
| MW-5 | 10:06 A.M. | 6.74 | 751.74 | 745.00 |
| MW-5B | 10:07 A.M. | 6.53 | 751.54 | 745.01 |
| MW-6 | 10:11 A.M. | 5.92 | 750.94 | 745.02 |
| MW-7 | 10:44 A.M. | 11.37 | 756.015 | 744.65 |
| MW-8 | 10:09 A.M. | 7.01 | 752.02 | 745.01 |
| MW-9 | 10:43 A.M. | 10.87 | 755.66 | 744.79 |
| MW-10 | 10:47 A.M. | Roots / Dry at 11.90 | 756.815 | Roots/Dry |
| MW-10B | 10:46 A.M. | 9.24 | 753.835 | 744.60 |
| MW-11 | 10:33 A.M. | 8.60 | 753.53 | 744.93 |
| MW-12 | 10:28 A.M. | 8.43 | 753.145 | 744.72 |
| MW-13 | 10:25 A.M. | 6.12 | 750.915 | 744.80 |
| MW-14 | 10:50 A.M. | 11.62 | 756.47 | 744.85 |
| MW-15 | 10:52 A.M. | 10.84 | 755.75 | 744.91 |

Notes:

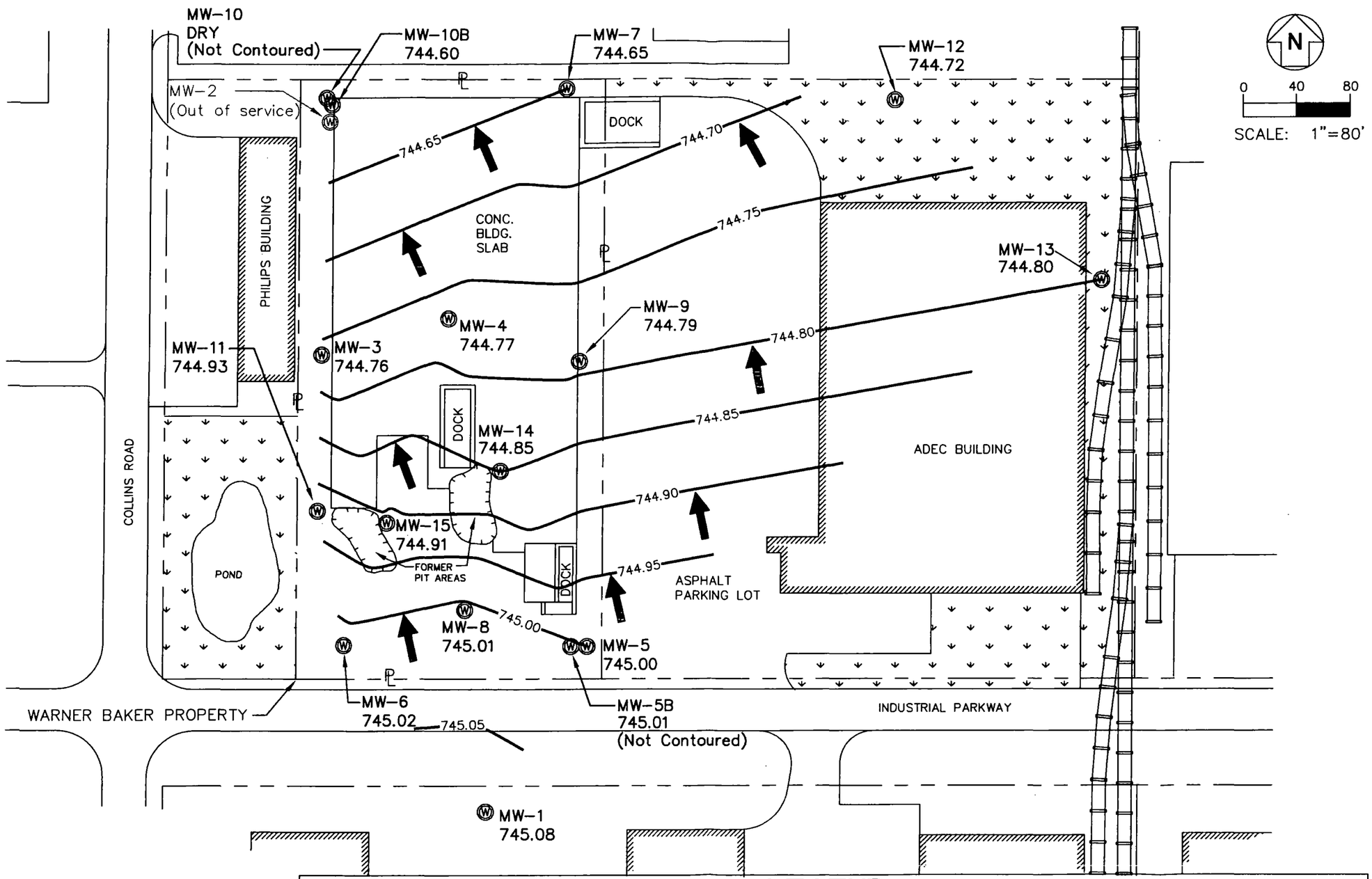
(1) SWL = Static Water Level.

(2) TOC = Top of Well Casing.

(3) TOC Elev. = TOC Elevation per EIS Survey of March 22, 2001.

(4) SWL Elev. = SWL Elevation.

(5) The sparge system and SVE system were shut off on March 29, 2007, and restarted on April 2, 2007, after the SWL checks and sampling were completed on April 2, 2007.




## LEGEND

| | |
|---|---|
| MW-1 745.08 | Monitoring well location and groundwater elevation in feet (NGVD) as measured on April 2, 2007. All measurements were made within a one hour time period. Well MW-10 was dry; roots in this well have prevented the detection of the static water level (SWL). The SWL levels at well MW-9 were not used to contour the groundwater elevations because roots in this well may have prevented an accurate SWL check. |
| —℄— | Property line. |
| → | Groundwater flow direction. |
| —744.80— | Groundwater elevation contour in feet (NGVD). Contour interval is 0.05 foot. |
| | Former pit areas from previous remediation efforts at the site. The pits are now filled, and a Sparge/SVE remediation system is in this general area. |

Drawn JMS | Approved JCS | Date APRIL 2007 | Proj.No. 1092-0701-01 | Sheet No. FIGURE 3.1

**FIGURE 3.1**
**ACCRA PAC**
**2626 INDUSTRIAL PARKWAY, ELKHART INDIANA**
**GROUNDWATER FLOW DIRECTION MAP**
**APRIL 2, 2007**

HEARTLAND ENVIRONMENTAL ASSOCIATES, INC.
3410 Mishawaka Ave. South Bend, IN 46615
Tele. (574) 289-1191 Fax. (574) 289-7480

P:\EIS PROJECTS\ACCRA PAC\AutoCAD\1092070101-Accra Pac-SWL-040207.dwg, 4/23/2007 1:16:34 PM, Heartland Environmental Assoc.

# 4.0 ANALYTICAL RESULTS

## 4.1 Analytical Results

Analytical reports, with Quality Control and Quality Assurance data, for each sample collected are provided in Appendix A. A summary of the analytical results from the April 2, 2007, monitoring event is provided in Table 4.1. Trend graphs showing the concentrations over time are provided in Appendix D.

## 4.2 Comparison of Results with Established Clean-up Levels

The baseline analytical results for groundwater from compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 were established during the September 30, 1996, baseline groundwater monitoring event. The 1996 baseline results are used to evaluate the results from compliance monitoring in order to determine if remediation is complete. The details for the evaluation procedure are provided in Section 2.0 of the May 13, 1996, EIS report "Predesign and Compliance Monitoring Plan." According to the terms of the Consent Order, the groundwater remediation will be considered complete when the total groundwater VOC concentrations at the compliance wells have stabilized at a 95% reduction of the total baseline VOC concentrations. On November 28, 2001, EIS requested that the USEPA clarify the appropriate procedure to calculate the 95% reduction of the total baseline VOC concentrations. In response to this request, Mr. Kenneth Theisen, the USEPA - Region 5 project manager, clarified that the remediation completion criteria would be based on the sum of VOC concentrations at all the compliance wells. Therefore, groundwater remediation will be considered complete when the sum of the total groundwater VOC concentrations determined by the compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 have stabilized at a 95% reduction of the sum of the total baseline VOC concentrations for these wells. The total VOC concentrations, known as "VOC 15," are the sum of the analytical results for the following 15 VOC parameters:

| | |
|---|---|
| 1,2-Dichlorobenzene | Toluene |
| 1,1-Dichloroethane | 1,1,1-Trichloroethane |
| 1,2-Dichloroethane | Trichloroethene |
| 1,1-Dichloroethene | Trichlorofluoromethane |
| c-1,2-Dichloroethene | 1,1,2-Trichlorotrifluoroethane |
| Dichlorofluoromethane | Vinyl Chloride |
| Ethylbenzene | Xylenes |
| Tetrachloroethene | |

For the purposes of determining VOC 15, each parameter for which contamination was not detected is assigned a value of half of the Estimated Quantitation Limit (EQL). A Sample Detection Limit (SDL) may be used if the laboratory reported SDL rather than EQL. Table 4.2 lists the VOC 15 concentrations, associated data, clean-up levels, and an evaluation of whether or not the clean-up limits have been achieved. As is indicated in Table 4.2, the objective clean-up limits were not achieved as of the April 2, 2007, monitoring event. Therefore, remediation and semi-annual monitoring will continue. The next semi-annual groundwater sampling event is scheduled for September 2007.

## TABLE 4.1

## SUMMARY OF ANALYTICAL RESULTS
## APRIL 2, 2007 [1]

| VOC 15 PARAMETERS [2] | RESULT (PPB) | | | | | |
|---|---|---|---|---|---|---|
| | WELL/SAMPLE ID | | | | | |
| | MW-4 | MW-7 | FD(MW-7)[4] | MW-10B | MW-14 | MW-15 |
| 1,2-Dichlorobenzene | ND | 4.14 | 3.68 | ND | 1.58 | ND |
| 1,1-Dichloroethane | 46.7 | 293 | 274 | 266 | 69.3 | 1.02 |
| 1,2-Dichloroethane | ND | 1.75 | 1.54 | 1.53 | ND | ND |
| 1,1-Dichloroethene | ND | 2.35 | 2.28 | ND | ND | ND |
| c-1,2-Dichloroethene | ND | 23.9 | 25.0 | 6.79 | 3.67 | ND |
| Dichlorofluoromethane | 3.49 | 4.62 | 4.13 | 85.0 | 11.9 | ND |
| Ethylbenzene | ND | 1.25 | 1.02 | 14.5 | 3.84 | ND |
| Tetrachloroethene | 1.46 | 5.31 | 4.77 | 152 | 120 | 1.76 |
| Toluene | ND | ND | ND | 1.02 | ND | ND |
| 1,1,1-Trichloroethane | 4.41 | 37.4 | 35.1 | 45.7 | 41.1 | 6.37 |
| Trichloroethene | ND | 17.7 | 18.7 | 4.43 | 125 | ND |
| Trichlorofluoromethane | ND | ND | ND | 8.25 | 7.16 | ND |
| 1,1,2-Trichlorotrifluoroethane | 147 | 10.6 | 8.96 | 4,100 | 123 | 21,300 |
| Vinyl Chloride | ND | 7.39 | 6.83 | 2.97 | 1.90 | ND |
| Xylenes | ND | ND | ND | 33.0 | ND | ND |

Notes:

(1) Semi-annual groundwater monitoring was conducted by Heartland at the site located at 2626 Industrial Parkway, Elkhart, Indiana, on April 2, 2007.

(2) VOC 15 Parameters = The list of 15 Volatile Organic Compounds (VOC) previously detected in groundwater at the Site. In accordance with the May 13, 1996, "Predesign and Compliance Monitoring Plan" the total concentration of these 15 VOC, identified as "VOC 15" is to be used to evaluate remediation at the Site. See text and Table 4.2 for details.

(3) ND = Not Detected. See Analytical Reports in Appendix A for detection limits.

(4) FD = Field Duplicate.

# TABLE 4.2
## DETERMINATION OF COMPLIANCE VOC 15 CONCENTRATIONS AND COMPARISON WITH BASELINE VOC 15 CONCENTRATIONS AND CLEAN-UP LEVELS [1]
## APRIL 2, 2007, SAMPLING EVENT

| | COMPLIANCE WELL/SAMPLE ID | | | | | | | | | | | SITE TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-4 | | MW-7 | | FD(MW-7) | | MW-10B | MW-14 | | MW-15 | | |
| Detected VOC (ppb)[2] | 203.06 | | 409.41 | | 386.01 | | 4,721.19 | 508.45 | | 21,309.15 | | |
| Number Non-Detects[3] | 9 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | 10 | 1 | |
| EQL(ppb)[4] | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | ↓ |
| Non-Detected VOC (ppb)[5] | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 10 | 2 | |
| ½ Non-Detected VOC (ppb)[6] | 4.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1.5 | 1 | 5 | 1 | |
| Compliance VOC 15 (ppb) [7] | 208.56 | | 411.41 | | 388.01 | | 4,722.19 | 510.95 | | 21,315.15 | | 27,556.27 |
| Baseline VOC 15 (ppb) from 1996[8] | 4,111.6 | | 1,751.6 | | 1,751.6 | | 16,530 | 99,870 | | 82,850 | | 206,864.8 |
| 5% Baseline VOC 15 (ppb) from 1996[9] | 205.58 | | 87.58 | | 87.58 | | 826.50 | 4,993.5 | | 4,142.5 | | 10,343.24 |
| Is Compliance VOC 15 < or = 5% Baseline VOC 15? [10] | | | | | | | | | | | | NO |

Notes: See next page for notes to Table 4.2.

## TABLE 4.2 (continued)
## DETERMINATION OF COMPLIANCE VOC 15 CONCENTRATIONS AND COMPARISON WITH AND BASELINE VOC 15 CONCENTRATIONS AND CLEAN-UP LEVELS (1)
## APRIL 2, 2006, SAMPLING EVENT

Notes to Table 4.2:

(1) Baseline data were calculated from the analyses of 15 target Volatile Organic Compounds (VOC 15) as obtained from the September 30, 1996, baseline groundwater monitoring event for the site located at 2626 Industrial Parkway, Elkhart, Indiana. See EIS report dated October 31, 1996, regarding the September 1996 baseline event and the May 13, 1996, EIS report, "Predesign and Compliance Monitoring Plan" for details for the determination and use of baseline results in the evaluation of future compliance monitoring results. On November 28, 2001, Mr. Kenneth Theisen, the USEPA – Region 5 project manager, clarified that the remediation completion criteria would be based on the sum of VOC concentrations at all the compliance wells. Therefore, groundwater remediation will be considered complete when the sum of the total groundwater VOC concentrations determined by the compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 have stabilized at a 95% reduction of the sum of the total baseline VOC concentrations for these wells.

(2) Detected VOC 15 = Total concentration of detected VOC from current monitoring event. See Table 4.1 and Analytical Reports in Appendix A for details.

(3) Number Non-Detects = Number of target VOC parameters for which contamination was not detected in current monitoring event.

(4) EQL = Estimated Quantitation Limit. A Reporting Detection Limit (RDL) may be used for evaluation purposes if the laboratory did not report an EQL. If more than one EQL or RDL is listed, parameter specific non-detected VOC values must be computed. See note 5 below.

(5) Non-Detected VOC = The product obtained by multiplying the number of Non-Detected VOC by the EQL (or RDL). If more than one EQL or RDL is listed the Non-Detected VOC is the sum of the products obtained by multiplying number of Non-Detected VOC by the associated EQL or RDL values.

(6) ½ Non-Detected VOC = The quotient obtained by dividing the Non-Detected VOC by 2.

(7) Compliance VOC 15 = The sum obtained by adding the Detected VOC 15 to the ½ Non-Detected VOC. Compliance VOC 15 is a total value, comprising the sum of the 15 individual target VOC parameters.

(8) Baseline VOC 15 = The sum of the 15 individual target VOC parameters as determined as a result of the 1996 baseline event.

(9) 5% Baseline VOC 15 = 5% of the Baseline VOC 15 concentration. This value represents a 95% reduction in the total concentration of VOC 15 and is intended for use as a clean-up level in order to evaluate if remediation is complete.

(10) If Compliance VOC 15 is less than or equal to 5% Baseline VOC 15, a 95% reduction in the concentration of VOC 15 is indicated and the clean-up level has been achieved. See the May 13, 1996, EIS report, "Predesign and Compliance Monitoring Plan" for actions to be taken once the clean-up levels have been achieved.

(11) The field duplicate value is used in place of the value for the well for which it is a duplicate if the field duplicate value is greater.

# APPENDIX A

# ANALYTICAL RESULTS

TestAmerica
ANALYTICAL TESTING CORPORATION

3601 South Dixie Drive Dayton, OH 45439 (800) 572-9839
6964 Hillsdale Court Indianapolis, IN 46250 (800) 485-0204
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

April 19, 2007

Client:

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615

Attn: JC Sporleder

Work Order: DQD0123
Project Name: Accra Pac
Project Number: APG Accra Pac Groundwater

Date Received: 04/03/07

**Samples logged in at Dayton laboratory.**

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| MW-4 | DQD0123-01 | 04/02/07 12:10 |
| MW-7 | DQD0123-02 | 04/02/07 11:35 |
| MW-10B | DQD0123-03 | 04/02/07 13:05 |
| MW-14 | DQD0123-04 | 04/02/07 13:45 |
| MW-15 | DQD0123-05 | 04/02/07 14:25 |
| FD+MS/DMS | DQD0123-06 | 04/02/07 11:40 |
| Trip Blank | DQD0123-07 | 04/02/07 |

**Case Narrative: Revised Report: P11 flag changed to pH flag.**

**Samples were received into laboratory at a temperature of 6 °C.**
Most environmental analytical testing methods require samples to be shipped above freezing, with temperatures not to exceed 6 degrees C. If sample temperatures are outside of this temperature range at the time of sample receipt, results may be impacted.

Indiana Certification Number: C-OH-10

*Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.*

*TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.*

Report Approved By:

This report has been electronically signed.

**TestAmerica**
Jeff Ramey
Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION

3601 South Dixie Drive Dayton, OH 45439 (800) 572-9839
6964 Hillsdale Court Indianapolis, IN 46250 (800) 485-0204
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Rpt Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DQD0123-01 (MW-4 - Water - NonPotable)** | | | | | **Sampled: 04/02/07 12:10** | | **Recvd: 04/03/07 09:30** | | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| 1,2-Dichlorobenzene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethane** | **46.7** | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| 1,1-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| **Dichlorofluoromethane** | **3.49** | A-01 | ug/L | 1.00 | 1 | 04/16/07 20:07 | prb | 7040790 | SW 8260B |
| Ethylbenzene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| **Tetrachloroethene** | **1.46** | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| Toluene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| **1,1,1-Trichloroethane** | **4.41** | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| Trichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| Trichlorofluoromethane | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| **1,1,2-Trichlorotrifluoroethane** | **147** | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| Xylenes, Total | <2.00 | | ug/L | 2.00 | 1 | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *98 %* | | | | | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *102 %* | | | | | 04/16/07 20:07 | prb | 7040790 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *100 %* | | | | | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/16/07 20:07 | prb | 7040790 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *98 %* | | | | | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *95 %* | | | | | 04/16/07 20:07 | prb | 7040790 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *109 %* | | | | | 04/07/07 09:49 | jxc | 7040375 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *102 %* | | | | | 04/16/07 20:07 | prb | 7040790 | SW 8260B |
| **Sample ID: DQD0123-02 (MW-7 - Water - NonPotable)** | | | | | **Sampled: 04/02/07 11:35** | | **Recvd: 04/03/07 09:30** | | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| **1,2-Dichlorobenzene** | **4.14** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethane** | **293** | pH | ug/L | 10.0 | 10 | 04/09/07 15:07 | jxc | 7040442 | SW 8260B |
| **1,2-Dichloroethane** | **1.75** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **cis-1,2-Dichloroethene** | **23.9** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethene** | **2.35** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **Dichlorofluoromethane** | **4.62** | A-01 | ug/L | 1.00 | 1 | 04/16/07 20:36 | prb | 7040790 | SW 8260B |
| **Ethylbenzene** | **1.25** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **Tetrachloroethene** | **5.31** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| Toluene | *<1.00* | | ug/L | *1.00* | *1* | *04/07/07 10:23* | jxc | 7040375 | SW 8260B |
| **1,1,1-Trichloroethane** | **37.4** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **Trichloroethene** | **17.7** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| Trichlorofluoromethane | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **1,1,2-Trichlorotrifluoroethane** | **10.6** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| **Vinyl chloride** | **7.39** | | ug/L | 1.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| Xylenes, Total | <2.00 | | ug/L | 2.00 | 1 | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *101 %* | | | | | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *100 %* | *pH* | | | | 04/09/07 15:07 | jxc | 7040442 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *103 %* | | | | | 04/16/07 20:36 | prb | 7040790 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |

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|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Rpt Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DQD0123-02 (MW-7 - Water - NonPotable) - cont.** | | | | | **Sampled:** | **04/02/07 11:35** | | **Recvd: 04/03/07 09:30** | |
| Volatile Organic Compounds by GC/MS - cont. | | | | | | | | | |
| *Surr: Dibromofluoromethane (80-120%)* | *100 %* | *pH* | | | | 04/09/07 15:07 | jxc | 7040442 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/16/07 20:36 | prb | 7040790 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *95 %* | | | | | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *96 %* | *pH* | | | | 04/09/07 15:07 | jxc | 7040442 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *95 %* | | | | | 04/16/07 20:36 | prb | 7040790 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *106 %* | | | | | 04/07/07 10:23 | jxc | 7040375 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *106 %* | *pH* | | | | 04/09/07 15:07 | jxc | 7040442 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *98 %* | | | | | 04/16/07 20:36 | prb | 7040790 | SW 8260B |
| **Sample ID: DQD0123-03 (MW-10B - Water - NonPotable)** | | | | | **Sampled:** | **04/02/07 13:05** | | **Recvd: 04/03/07 09:30** | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| 1,2-Dichlorobenzene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethane** | **266** | | ug/L | 10.0 | 10 | 04/09/07 17:58 | jxc | 7040442 | SW 8260B |
| **1,2-Dichloroethane** | **1.53** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **cis-1,2-Dichloroethene** | **6.79** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| 1,1-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **Dichlorofluoromethane** | **85.0** | A-01b | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **Ethylbenzene** | **14.5** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **Tetrachloroethene** | **152** | | ug/L | 10.0 | 10 | 04/09/07 17:58 | jxc | 7040442 | SW 8260B |
| **Toluene** | **1.02** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **1,1,1-Trichloroethane** | **45.7** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **Trichloroethene** | **4.43** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **Trichlorofluoromethane** | **8.25** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **1,1,2-Trichlorotrifluoroethane** | **4100** | | ug/L | 100 | 100 | 04/10/07 14:53 | jxc | 7040508 | SW 8260B |
| **Vinyl chloride** | **2.97** | | ug/L | 1.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| **Xylenes, Total** | **33.0** | | ug/L | 2.00 | 1 | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *99 %* | | | | | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *97 %* | | | | | 04/09/07 17:58 | jxc | 7040442 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *95 %* | | | | | 04/10/07 14:53 | jxc | 7040508 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *98 %* | | | | | 04/09/07 17:58 | jxc | 7040442 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *100 %* | | | | | 04/10/07 14:53 | jxc | 7040508 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *97 %* | | | | | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *98 %* | | | | | 04/09/07 17:58 | jxc | 7040442 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *97 %* | | | | | 04/10/07 14:53 | jxc | 7040508 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *109 %* | | | | | 04/07/07 10:57 | jxc | 7040375 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *107 %* | | | | | 04/09/07 17:58 | jxc | 7040442 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *109 %* | | | | | 04/10/07 14:53 | jxc | 7040508 | SW 8260B |

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|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Rpt Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DQD0123-04 (MW-14 - Water - NonPotable)** | | | | | **Sampled: 04/02/07 13:45** | | **Recvd: 04/03/07 09:30** | | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| **1,2-Dichlorobenzene** | **1.58** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **1,1-Dichloroethane** | **69.3** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **cis-1,2-Dichloroethene** | **3.67** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| 1,1-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **Dichlorofluoromethane** | **11.9** | A-01 | ug/L | 1.00 | 1 | 04/16/07 21:04 | prb | 7040790 | SW 8260B |
| **Ethylbenzene** | **3.84** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **Tetrachloroethene** | **120** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| Toluene | <1.00 | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **1,1,1-Trichloroethane** | **41.1** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **Trichloroethene** | **125** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **Trichlorofluoromethane** | **7.16** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **1,1,2-Trichlorotrifluoroethane** | **123** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| **Vinyl chloride** | **1.90** | | ug/L | 1.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| Xylenes, Total | <2.00 | | ug/L | 2.00 | 1 | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *99 %* | | | | | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *99 %* | | | | | 04/16/07 21:04 | prb | 7040790 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *100 %* | | | | | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/16/07 21:04 | prb | 7040790 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *96 %* | | | | | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *97 %* | | | | | 04/16/07 21:04 | prb | 7040790 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *110 %* | | | | | 04/09/07 12:51 | jxc | 7040442 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *100 %* | | | | | 04/16/07 21:04 | prb | 7040790 | SW 8260B |
| **Sample ID: DQD0123-05 (MW-15 - Water - NonPotable)** | | | | | **Sampled: 04/02/07 14:25** | | **Recvd: 04/03/07 09:30** | | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| 1,2-Dichlorobenzene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethane** | **1.02** | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| 1,1-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| Dichlorofluoromethane | <1.00 | A-01b | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| Ethylbenzene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| **Tetrachloroethene** | **1.76** | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| Toluene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| **1,1,1-Trichloroethane** | **6.37** | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| Trichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| Trichlorofluoromethane | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| **1,1,2-Trichlorotrifluoroethane** | **21300** | | ug/L | 1000 | 1000 | 04/10/07 15:26 | jxc | 7040508 | SW 8260B |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| Xylenes, Total | <2.00 | | ug/L | 2.00 | 1 | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *103 %* | | | | | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *99 %* | | | | | 04/10/07 15:26 | jxc | 7040508 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *103 %* | | | | | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *100 %* | | | | | 04/10/07 15:26 | jxc | 7040508 | SW 8260B |

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|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Rpt Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DQD0123-05 (MW-15 - Water - NonPotable) - cont.** | | | | | **Sampled:** | **04/02/07 14:25** | | **Recvd: 04/03/07 09:30** | |
| Volatile Organic Compounds by GC/MS - cont. | | | | | | | | | |
| *Surr: Toluene-d8 (80-120%)* | *96 %* | | | | | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *97 %* | | | | | 04/10/07 15:26 | jxc | 7040508 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *107 %* | | | | | 04/07/07 12:04 | jxc | 7040375 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *112 %* | | | | | 04/10/07 15:26 | jxc | 7040508 | SW 8260B |
| **Sample ID: DQD0123-06 (FD+MS/DMS - Water - NonPotable)** | | | | | **Sampled:** | **04/02/07 11:40** | | **Recvd: 04/03/07 09:30** | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| **1,2-Dichlorobenzene** | **3.68** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethane** | **274** | | ug/L | 10.0 | 10 | 04/09/07 14:33 | jxc | 7040442 | SW 8260B |
| **1,2-Dichloroethane** | **1.54** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **cis-1,2-Dichloroethene** | **25.0** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **1,1-Dichloroethene** | **2.28** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **Dichlorofluoromethane** | **4.13** | A-01 | ug/L | 1.00 | 1 | 04/16/07 21:33 | prb | 7040790 | SW 8260B |
| **Ethylbenzene** | **1.02** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **Tetrachloroethene** | **4.77** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| Toluene | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **1,1,1-Trichloroethane** | **35.1** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **Trichloroethene** | **18.7** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| Trichlorofluoromethane | <1.00 | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **1,1,2-Trichlorotrifluoroethane** | **8.96** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| **Vinyl chloride** | **6.83** | | ug/L | 1.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| Xylenes, Total | <2.00 | | ug/L | 2.00 | 1 | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *104 %* | | | | | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *99 %* | | | | | 04/09/07 14:33 | jxc | 7040442 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *103 %* | | | | | 04/16/07 21:33 | prb | 7040790 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *103 %* | | | | | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *99 %* | | | | | 04/09/07 14:33 | jxc | 7040442 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *102 %* | | | | | 04/16/07 21:33 | prb | 7040790 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *97 %* | | | | | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *95 %* | | | | | 04/09/07 14:33 | jxc | 7040442 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *95 %* | | | | | 04/16/07 21:33 | prb | 7040790 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *110 %* | | | | | 04/07/07 07:33 | jxc | 7040375 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *96 %* | | | | | 04/09/07 14:33 | jxc | 7040442 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *101 %* | | | | | 04/16/07 21:33 | prb | 7040790 | SW 8260B |

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6964 Hillsdale Court Indianapolis, IN 46250 (800) 485-0204
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Rpt Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DQD0123-07 (Trip Blank - Water - NonPotable)** | | | | | **Sampled: 04/02/07** | | | **Recvd: 04/03/07 09:30** | |
| Volatile Organic Compounds by GC/MS | | | | | | | | | |
| 1,2-Dichlorobenzene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| 1,1-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| 1,1-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Dichlorofluoromethane | <1.00 | A-01 | ug/L | 1.00 | 1 | 04/16/07 19:38 | prb | 7040790 | SW 8260B |
| Ethylbenzene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Tetrachloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Toluene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| 1,1,1-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Trichloroethene | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Trichlorofluoromethane | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| 1,1,2-Trichlorotrifluoroethane | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| Xylenes, Total | <2.00 | | ug/L | 2.00 | 1 | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *100 %* | | | | | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *103 %* | | | | | 04/16/07 19:38 | prb | 7040790 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *101 %* | | | | | 04/16/07 19:38 | prb | 7040790 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *97 %* | | | | | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *100 %* | | | | | 04/16/07 19:38 | prb | 7040790 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *106 %* | | | | | 04/06/07 19:08 | jxc | 7040369 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *103 %* | | | | | 04/16/07 19:38 | prb | 7040790 | SW 8260B |

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6964 Hillsdale Court Indianapolis, IN 46250 (800) 485-0204
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| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethane | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| cis-1,2-Dichloroethene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Dichlorofluoromethane | 7040369 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Ethylbenzene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Tetrachloroethene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Toluene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichlorofluoromethane | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 7040369 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, Total | 7040369 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040369* | | | ug/L | | | | | *98* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040369* | | | ug/L | | | | | *98* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040369* | | | ug/L | | | | | *99* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040369* | | | ug/L | | | | | *109* | | *80-120* | | | |
| 1,2-Dichlorobenzene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethane | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| cis-1,2-Dichloroethene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Dichlorofluoromethane | 7040375 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Ethylbenzene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Tetrachloroethene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Toluene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichlorofluoromethane | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 7040375 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, Total | 7040375 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040375* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040375* | | | ug/L | | | | | *102* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040375* | | | ug/L | | | | | *97* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040375* | | | ug/L | | | | | *109* | | *80-120* | | | |

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| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethane | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| cis-1,2-Dichloroethene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Dichlorofluoromethane | 7040442 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Ethylbenzene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Tetrachloroethene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Toluene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichlorofluoromethane | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 7040442 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, Total | 7040442 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040442* | | | ug/L | | | | | *95* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040442* | | | ug/L | | | | | *98* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040442* | | | ug/L | | | | | *98* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040442* | | | ug/L | | | | | *110* | | *80-120* | | | |
| 1,2-Dichlorobenzene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethane | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| cis-1,2-Dichloroethene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Dichlorofluoromethane | 7040508 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Ethylbenzene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Tetrachloroethene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Toluene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichlorofluoromethane | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 7040508 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, Total | 7040508 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040508* | | | ug/L | | | | | *97* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040508* | | | ug/L | | | | | *100* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040508* | | | ug/L | | | | | *97* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040508* | | | ug/L | | | | | *110* | | *80-120* | | | |

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| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | |
| JC Sporleder | | | | |

## LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethane | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| cis-1,2-Dichloroethene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Dichlorofluoromethane | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | A-01 |
| Ethylbenzene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Tetrachloroethene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Toluene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichlorofluoromethane | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 7040790 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, Total | 7040790 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040790* | | | ug/L | | | | | *102* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040790* | | | ug/L | | | | | *103* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040790* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040790* | | | ug/L | | | | | *101* | | *80-120* | | | |

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 20.7 | | 104 | | 78-123 | | | |
| 1,1-Dichloroethane | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 19.7 | | 98 | | 79-120 | | | |
| 1,2-Dichloroethane | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 19.4 | | 97 | | 75-120 | | | |
| cis-1,2-Dichloroethene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 21.5 | | 108 | | 80-120 | | | |
| 1,1-Dichloroethene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 19.3 | | 96 | | 71-121 | | | |
| Ethylbenzene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 21.0 | | 105 | | 79-120 | | | |
| Tetrachloroethene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 19.9 | | 100 | | 62-128 | | | |
| Toluene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 20.5 | | 102 | | 79-120 | | | |
| 1,1,1-Trichloroethane | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 19.7 | | 98 | | 74-121 | | | |
| Trichloroethene | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 20.6 | | 103 | | 77-120 | | | |
| Trichlorofluoromethane | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 19.4 | | 97 | | 71-136 | | | |
| Vinyl chloride | 7040369 | | 20.0 | ug/L | N/A | 1.00 | 17.1 | | 86 | | 65-126 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040369* | | | ug/L | | | | | *102* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040369* | | | ug/L | | | | | *100* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040369* | | | ug/L | | | | | *100* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040369* | | | ug/L | | | | | *100* | | *80-120* | | | |
| 1,2-Dichlorobenzene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.6 | | 98 | | 78-123 | | | |
| 1,1-Dichloroethane | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.3 | | 96 | | 79-120 | | | |
| 1,2-Dichloroethane | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 20.0 | | 100 | | 75-120 | | | |
| cis-1,2-Dichloroethene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 21.5 | | 108 | | 80-120 | | | |
| 1,1-Dichloroethene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.2 | | 96 | | 71-121 | | | |
| Ethylbenzene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.7 | | 98 | | 79-120 | | | |
| Tetrachloroethene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 21.9 | | 110 | | 62-128 | | | |
| Toluene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.3 | | 96 | | 79-120 | | | |
| 1,1,1-Trichloroethane | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.5 | | 98 | | 74-121 | | | |
| Trichloroethene | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 20.6 | | 103 | | 77-120 | | | |
| Trichlorofluoromethane | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 19.3 | | 96 | | 71-136 | | | |
| Vinyl chloride | 7040375 | | 20.0 | ug/L | N/A | 1.00 | 17.1 | | 86 | | 65-126 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040375* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040375* | | | ug/L | | | | | *100* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040375* | | | ug/L | | | | | *95* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040375* | | | ug/L | | | | | *98* | | *80-120* | | | |
| 1,2-Dichlorobenzene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 20.6 | | 103 | | 78-123 | | | |
| 1,1-Dichloroethane | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.7 | | 98 | | 79-120 | | | |
| 1,2-Dichloroethane | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.6 | | 98 | | 75-120 | | | |
| cis-1,2-Dichloroethene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 21.0 | | 105 | | 80-120 | | | |
| 1,1-Dichloroethene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.2 | | 96 | | 71-121 | | | |
| Ethylbenzene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 20.1 | | 100 | | 79-120 | | | |
| Tetrachloroethene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.0 | | 95 | | 62-128 | | | |
| Toluene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.3 | | 96 | | 79-120 | | | |
| 1,1,1-Trichloroethane | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.7 | | 98 | | 74-121 | | | |
| Trichloroethene | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 21.2 | | 106 | | 77-120 | | | |
| Trichlorofluoromethane | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 19.6 | | 98 | | 71-136 | | | |

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6964 Hillsdale Court Indianapolis, IN 46250 (800) 485-0204
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| Vinyl chloride | 7040442 | | 20.0 | ug/L | N/A | 1.00 | 17.2 | | 86 | | 65-126 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040442* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040442* | | | ug/L | | | | | *99* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040442* | | | ug/L | | | | | *94* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040442* | | | ug/L | | | | | *89* | | *80-120* | | | |
| 1,2-Dichlorobenzene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 20.4 | | 102 | | 78-123 | | | |
| 1,1-Dichloroethane | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 19.5 | | 98 | | 79-120 | | | |
| 1,2-Dichloroethane | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 19.7 | | 98 | | 75-120 | | | |
| cis-1,2-Dichloroethene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 21.6 | | 108 | | 80-120 | | | |
| 1,1-Dichloroethene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 19.4 | | 97 | | 71-121 | | | |
| Ethylbenzene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 19.8 | | 99 | | 79-120 | | | |
| Tetrachloroethene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 18.5 | | 92 | | 62-128 | | | |
| Toluene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 19.1 | | 96 | | 79-120 | | | |
| 1,1,1-Trichloroethane | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 19.3 | | 96 | | 74-121 | | | |
| Trichloroethene | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 21.2 | | 106 | | 77-120 | | | |
| Trichlorofluoromethane | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 17.9 | | 90 | | 71-136 | | | |
| Vinyl chloride | 7040508 | | 20.0 | ug/L | N/A | 1.00 | 16.9 | | 84 | | 65-126 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040508* | | | ug/L | | | | | *99* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040508* | | | ug/L | | | | | *98* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040508* | | | ug/L | | | | | *94* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040508* | | | ug/L | | | | | *102* | | *80-120* | | | |
| 1,2-Dichlorobenzene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 78-123 | | | |
| 1,1-Dichloroethane | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 79-120 | | | |
| 1,2-Dichloroethane | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 75-120 | | | |
| cis-1,2-Dichloroethene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 80-120 | | | |
| 1,1-Dichloroethene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 71-121 | | | |
| Dichlorofluoromethane | 7040790 | | | ug/L | N/A | 1.00 | 19.8 | | | | | | | A-01 |
| Ethylbenzene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 79-120 | | | |
| Tetrachloroethene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 62-128 | | | |
| Toluene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 79-120 | | | |
| 1,1,1-Trichloroethane | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 74-121 | | | |
| Trichloroethene | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 77-120 | | | |
| Trichlorofluoromethane | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 71-136 | | | |
| Vinyl chloride | 7040790 | | 20.0 | ug/L | N/A | 1.00 | <1.00 | | | | 65-126 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040790* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040790* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040790* | | | ug/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040790* | | | ug/L | | | | | *101* | | *80-120* | | | |

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6964 Hillsdale Court Indianapolis, IN 46250 (800) 485-0204
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DQC2118-07** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 19.7 | 20.4 | 98 | 102 | 78-123 | 3 | 25 | |
| 1,1-Dichloroethane | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 20.5 | 20.3 | 102 | 102 | 79-120 | 1 | 25 | |
| 1,2-Dichloroethane | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 20.4 | 20.4 | 102 | 102 | 75-120 | 0 | 25 | |
| cis-1,2-Dichloroethene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 22.0 | 21.7 | 110 | 108 | 80-120 | 1 | 25 | |
| 1,1-Dichloroethene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 20.5 | 20.6 | 102 | 103 | 71-121 | 1 | 25 | |
| Ethylbenzene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 20.4 | 20.1 | 102 | 100 | 79-120 | 1 | 25 | |
| Tetrachloroethene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 18.7 | 18.8 | 94 | 94 | 62-128 | 1 | 25 | |
| Toluene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 19.9 | 20.3 | 100 | 102 | 79-120 | 2 | 25 | |
| 1,1,1-Trichloroethane | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 21.4 | 21.0 | 107 | 105 | 74-121 | 2 | 25 | |
| Trichloroethene | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 21.5 | 21.6 | 108 | 108 | 77-120 | 1 | 25 | |
| Trichlorofluoromethane | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 19.3 | 20.2 | 96 | 101 | 71-136 | 5 | 25 | |
| Vinyl chloride | 7040369 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 18.5 | 18.4 | 92 | 92 | 65-126 | 1 | 25 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040369* | | | ug/L | | | | | *102* | *102* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040369* | | | ug/L | | | | | *100* | *100* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040369* | | | ug/L | | | | | *95* | *95* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040369* | | | ug/L | | | | | *99* | *99* | *80-120* | | | |
| **QC Source Sample: DQC2118-06** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 25.2 | 24.6 | 126 | 123 | 78-0 | 2 | 25 | M |
| 1,1-Dichloroethane | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 294 | 290 | 1470 | 1450 | 79-120 | 1 | 25 | M |
| 1,2-Dichloroethane | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 22.2 | 22.1 | 111 | 110 | 75-0 | 1 | 25 | M |
| cis-1,2-Dichloroethene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 47.8 | 47.4 | 239 | 237 | 80-120 | 1 | 25 | M |
| 1,1-Dichloroethene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 23.5 | 22.9 | 118 | 114 | 71-0 | 3 | 25 | M |
| Ethylbenzene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 22.3 | 22.7 | 112 | 114 | 79-120 | 2 | 25 | M |
| Tetrachloroethene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 24.0 | 24.3 | 120 | 122 | 62-0 | 1 | 25 | M |
| Toluene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 20.9 | 21.2 | 104 | 106 | 79-0 | 1 | 25 | M |
| 1,1,1-Trichloroethane | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 55.4 | 55.0 | 277 | 275 | 74-121 | 1 | 25 | M |
| Trichloroethene | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 41.1 | 40.9 | 206 | 204 | 77-120 | 1 | 25 | M |
| Trichlorofluoromethane | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 21.9 | 21.0 | 110 | 105 | 71-0 | 4 | 25 | M |
| Vinyl chloride | 7040375 | <1.00 | 20.0 | ug/L | N/A | 1.00 | 25.8 | 25.2 | 129 | 126 | 65-126 | 2 | 25 | M |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040375* | | | ug/L | | | | | *104* | *104* | *80-120* | | | M |
| *Surrogate: Dibromofluoromethane* | *7040375* | | | ug/L | | | | | *100* | *101* | *80-120* | | | M |
| *Surrogate: Toluene-d8* | *7040375* | | | ug/L | | | | | *98* | *99* | *80-120* | | | M |
| *Surrogate: 4-Bromofluorobenzene* | *7040375* | | | ug/L | | | | | *98* | *100* | *80-120* | | | M |
| **QC Source Sample: DQD0123-06RE1** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040442 | <1.00 | 200 | ug/L | N/A | 10.0 | 197 | 203 | 98 | 102 | 78-123 | 3 | 25 | |
| 1,1-Dichloroethane | 7040442 | 274 | 200 | ug/L | N/A | 10.0 | 469 | 470 | 98 | 98 | 79-120 | 0 | 25 | |
| 1,2-Dichloroethane | 7040442 | <1.00 | 200 | ug/L | N/A | 10.0 | 205 | 207 | 102 | 104 | 75-120 | 1 | 25 | |
| cis-1,2-Dichloroethene | 7040442 | 26.0 | 200 | ug/L | N/A | 10.0 | 244 | 245 | 109 | 110 | 80-120 | 0 | 25 | |
| 1,1-Dichloroethene | 7040442 | <1.00 | 200 | ug/L | N/A | 10.0 | 212 | 203 | 106 | 102 | 71-121 | 4 | 25 | |
| Ethylbenzene | 7040442 | <1.00 | 200 | ug/L | N/A | 10.0 | 198 | 197 | 99 | 98 | 79-120 | 1 | 25 | |
| Tetrachloroethene | 7040442 | 5.90 | 200 | ug/L | N/A | 10.0 | 185 | 180 | 90 | 87 | 62-128 | 3 | 25 | |
| Toluene | 7040442 | <1.00 | 200 | ug/L | N/A | 10.0 | 196 | 196 | 98 | 98 | 79-120 | 0 | 25 | |
| 1,1,1-Trichloroethane | 7040442 | 33.8 | 200 | ug/L | N/A | 10.0 | 239 | 237 | 103 | 102 | 74-121 | 1 | 25 | |
| Trichloroethene | 7040442 | 20.6 | 200 | ug/L | N/A | 10.0 | 238 | 236 | 109 | 108 | 77-120 | 1 | 25 | |
| Trichlorofluoromethane | 7040442 | <1.00 | 200 | ug/L | N/A | 10.0 | 192 | 184 | 96 | 92 | 71-136 | 4 | 25 | |

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DQD0123-06RE1** | | | | | | | | | | | | | | |
| Vinyl chloride | 7040442 | 7.40 | 200 | ug/L | N/A | 10.0 | 199 | 190 | 96 | 91 | 65-126 | 5 | 25 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040442* | | | ug/L | | | | | *102* | *101* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040442* | | | ug/L | | | | | *98* | *99* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040442* | | | ug/L | | | | | *94* | *94* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040442* | | | ug/L | | | | | *96* | *88* | *80-120* | | | |
| **QC Source Sample: DQD0402-02** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040508 | <1.00 | 20000 | ug/L | N/A | 1000 | 15400 | 17300 | 77 | 86 | 78-0 | 12 | 25 | M |
| 1,1-Dichloroethane | 7040508 | 15400 | 20000 | ug/L | N/A | 1000 | 31700 | 33600 | 82 | 91 | 79-120 | 6 | 25 | M |
| 1,2-Dichloroethane | 7040508 | 540 | 20000 | ug/L | N/A | 1000 | 17000 | 18700 | 82 | 91 | 75-120 | 10 | 25 | M |
| cis-1,2-Dichloroethene | 7040508 | 37200 | 20000 | ug/L | N/A | 1000 | 54400 | 56900 | 86 | 98 | 80-0 | 4 | 25 | M |
| 1,1-Dichloroethene | 7040508 | <1.00 | 20000 | ug/L | N/A | 1000 | 17300 | 19600 | 86 | 98 | 71-121 | 12 | 25 | M |
| Ethylbenzene | 7040508 | <1.00 | 20000 | ug/L | N/A | 1000 | 15700 | 16900 | 78 | 84 | 79-120 | 7 | 25 | M |
| Tetrachloroethene | 7040508 | 11400 | 20000 | ug/L | N/A | 1000 | 27700 | 28200 | 82 | 84 | 62-128 | 2 | 25 | M |
| Toluene | 7040508 | <1.00 | 20000 | ug/L | N/A | 1000 | 16100 | 17400 | 80 | 87 | 79-120 | 8 | 25 | M |
| 1,1,1-Trichloroethane | 7040508 | 13100 | 20000 | ug/L | N/A | 1000 | 29600 | 31300 | 82 | 91 | 74-121 | 6 | 25 | M |
| Trichloroethene | 7040508 | 7960 | 20000 | ug/L | N/A | 1000 | 25500 | 27300 | 88 | 97 | 77-120 | 7 | 25 | M |
| Trichlorofluoromethane | 7040508 | <1.00 | 20000 | ug/L | N/A | 1000 | 16400 | 19400 | 82 | 97 | 71-136 | 17 | 25 | M |
| Vinyl chloride | 7040508 | 11300 | 20000 | ug/L | N/A | 1000 | 25900 | 28300 | 73 | 85 | 65-126 | 9 | 25 | M |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040508* | | | ug/L | | | | | *103* | *102* | *80-120* | | | M |
| *Surrogate: Dibromofluoromethane* | *7040508* | | | ug/L | | | | | *99* | *100* | *80-120* | | | M |
| *Surrogate: Toluene-d8* | *7040508* | | | ug/L | | | | | *95* | *95* | *80-120* | | | M |
| *Surrogate: 4-Bromofluorobenzene* | *7040508* | | | ug/L | | | | | *104* | *106* | *80-120* | | | M |
| **QC Source Sample: DQD0123-06RE2** | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 78-123 | | 25 | |
| 1,1-Dichloroethane | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 79-120 | | 25 | |
| 1,2-Dichloroethane | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 75-120 | | 25 | |
| cis-1,2-Dichloroethene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 80-120 | | 25 | |
| 1,1-Dichloroethene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 71-121 | | 25 | |
| Dichlorofluoromethane | 7040790 | <5.00 | | ug/L | N/A | N/A | 25.7 | 28.7 | | | | 11 | | A-01,A-01a |
| Ethylbenzene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 79-120 | | 25 | |
| Tetrachloroethene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 62-128 | | 25 | |
| Toluene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 79-120 | | 25 | |
| 1,1,1-Trichloroethane | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 74-121 | | 25 | |
| Trichloroethene | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 77-120 | | 25 | |
| Trichlorofluoromethane | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 71-136 | | 25 | |
| Vinyl chloride | 7040790 | <1.00 | 20.0 | ug/L | N/A | 1.00 | <1.00 | <1.00 | | | 65-126 | | 25 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *7040790* | | | ug/L | | | | | *102* | *104* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *7040790* | | | ug/L | | | | | *103* | *104* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *7040790* | | | ug/L | | | | | *94* | *92* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7040790* | | | ug/L | | | | | *102* | *98* | *80-120* | | | |

| | | | | | |
|---|---|---|---|---|---|
| Heartland Environmental Associates | Work Order: | DQD0123 | | Received: | 04/03/07 |
| 3410 Mishawaka Ave. | Project: | Accra Pac | | Reported: | 04/19/07 16:01 |
| South Bend, IN 46615 | Project Number: | APG Accra Pac Groundwater | | | |
| JC Sporleder | | | | | |

## CERTIFICATION SUMMARY

**TestAmerica - Dayton, OH**

| Method | Matrix | Nelac | Indiana |
|---|---|---|---|
| SW 8260B | Water - NonPotable | | |

*Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Termperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.*

*For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com*

*Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC).*

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **A-01** | Calibration confirms using expired standard for ICV/LCS. QC data within acceptable limits. |
| **A-01a** | Calibration confirms using expired standard for ICV/LCS. QC data within acceptable limits. Sample ran outside 12 hour BFB clock. |
| **A-01b** | Sample results obtained by open scan library search. |
| **M** | The MS, MSD, and/or RPD are outside of acceptance limits due to matrix interference. Please see Blank Spike (LCS). |
| **pH** | pH = >2 |

## ADDITIONAL COMMENTS

## ANALYSIS LOCATIONS

The analyses listed below were analyzed in satellite facilities

# APPENDIX B

# CHAIN-OF-CUSTODY DOCUMENTS

Rp0123

# CHAIN OF CUSTODY RECORD



| Heartland PROJECT NO. | Heartland CLIENT / PROJECT: |
|---|---|
| 1092 -- 0701-01 | APG (Accra Pac) Groundwater Monitoring |

SAMPLERS: (Print Name & Sign)
Josh Sporleder -
J.C. Sporleder -

| Sample Identification | Date | Time | Grab | Composite | Matrix: Soil | Matrix: Water | Matrix: Other | Total # of Containers | 40 cc Vial, 1+1 HCL | | | | | | | | | | | Cooler # | Remarks | LAB NO. | Sample State | Cooler Temp Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 4-2-07 | 12:10 | x | | | x | | | | | | | | | | | | | | | | | | |
| MW-7 | 4-2-07 | 11:35 | x | | | x | | | | | | | | | | | | | | | | | | |
| MW-10B | 4-2-07 | 13:05 | x | | | x | | | | | | | | | | | | | | | | | | |
| MW-14 | 4-2-07 | 13:45 | x | | | x | | | | | | | | | | | | | | | | | | |
| MW-15 | 4-2-07 | 14:25 | x | | | x | | | | | | | | | | | | | | | | | | |
| FD+MS/DMS | 4-2-07 | 11:40 | x | | | x | | | | | | | | | | | | | | | | | | |
| TRIP BLANK | 4-2-07 | — | x | | | x | | | | | | | | | | | | | | | Trip Blank Prepared by lab. | | | |
| – End of Sample List – | | | x | | | x | | | | | | | | | | | | | | | | | | |
| | | | x | | | x | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

ANALYSIS OR CONTAINER TYPE

LAB USE ONLY

| Relinquished by: | Date | Time | Received by: | Relinquished by: | Date | Time | Received by: |
|---|---|---|---|---|---|---|---|
| | 4-2-07 | | (Overnight via Fed-Ex) | Fed-Ex → | 4/3/07 | 0930 | |
| Relinquished by: | Date | Time | Received by: | Relinquished by: | Date | Time | Received by: |
| | | | | | | | |

Sample State
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION / SHIPMENT

| Heartland Vehicle: | Public: |
|---|---|
| | |

COMMENTS:
T=6°
Analyses are for "Target 15 VOC", Method 8260. See letter to laboratory for complete analysis instructions.

# APPENDIX C

# FIELD SAMPLING FORMS

Sheet 1 of 1

Project: KIK-Accra Pac/Warner Baker Compliance Monitoring

Project No: 1092 - 07 01-01 Date: 4-2-07

Prepared By: Josh Sporleder

# STATIC WATER LEVEL FIELD CHECK RECORD

| | |
|---|---|
| **Site Location:** | KIK-Accra Pac / Warner Baker Site, 2626 Industrial Parkway, Elkhart, Indiana |
| **EIS Field Personnel:** | Josh Sporleder / JC Sporleder |
| **Equipment Used:** | Electronic Water Mark |

| Station or Well ID | (All on 4-2-07) Date & Time of Check | TOC (1) to SWL (2) (feet) | TOC Elev. (3) (feet) | SWL Elev. (feet) | Comments |
|---|---|---|---|---|---|
| MW-1 | 10:00 | 10.67 | 755.75 | 745.08 | |
| MW-3 | 10:36 | 11.65 | 756.41 | 744.76 | |
| MW-4 | 10:39 | 11.35 | 756.115 | 744.765 | |
| MW-5 | 10:06 | 6.74 | 751.74 | 745.00 | |
| MW-5B | 10:07 | 6.53 | 751.54 | 745.01 | |
| MW-6 | 10:11 ~~10:07~~ | 5.92 ~~5.97~~ | 750.94 | 745.02 ~~744.97~~ | |
| MW-7 | 10:49 | 11.37 | 756.015 | 744.645 | |
| MW-8 | 10:09 | 7.01 | 752.02 | 745.01 | |
| MW-9 | 10:43 | 10.87 | 755.66 | 744.79 | Bottom = 16.75 |
| MW-10 | 10:47 | obstruction ? 11.90 | 756.815 | - NA Dry. | Root fragments on probe tip. |
| MW-10B | 10:46 | 9.24 | 753.835 | 744.595 | |
| MW-11 | 10:33 | 8.60 | 753.53 | 744.93 | |
| MW-12 | 10:28 | 8.43 | 753.145 | 744.715 | |
| MW-13 | 10:25 | 6.12 | 750.915 | 744.795 | |
| MW-14 | 10:50 | 11.62 | 756.47 | 744.85 | |
| MW-15 | 10:52 | 10.84 | 755.75 | 744.91 | |

**Notes:**

1) TOC = Top of Well Casing.
2) SWL = Static Water Level.
3) Elev. = Elevation in feet (N.G.V.D.).

# MONITORING WELL SAMPLING FORM

Sample Date: 4 / 2 / 07 12 : 10 am / pm
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 -- 07 01-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

Well I.D.: MW-4
Sample I.D.: MW-4
Collector(s): Josh Sporleder/J.C. Spodeder
Lab No.: DQD0123-01

**PRE-PURGE**

Well Material: ( PVC / Stainless / Galvanized / ----- )
Elevation top of Casing (TOC): 756.115* Ft
SWL Depth from TOC: 11.38 Ft
Well Depth from TOC: 26.75 Ft
Height of Water Column: 15.37 Ft
Volume/Foot Casing ($d^2$x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 2.51 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ~~729.365~~ 754.015 Ft
SWL Elevation: 744.735 Ft
TOC to Grade: ≈ 2.1 Ft
Well Depth from Grade: ≈ 24.65 Ft

**PURGE**

Time & Date Purged: 11 : 55 am / pm 4 / 2 / 07
Calculated Volume to Purge: 7.53 Gallons
Actual Volume Purged: 7.75 Gallons
Purged: dry / 1 2 3 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: --- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

**SAMPLING**

Time & Date Sampled: 12 : 10 am / pm 4 / 2 / 07
Weather Conditions: Sky: clear Ground: concrete Wind: 10 MPH
Temp: 53°F Humidity: High / Moderate / Low %: — Precipitation: none
SWL (Depth From TOC) Prior to Sampling: 11.48 Ft
Height of Water Column Prior to Sampling: 15.27 Ft
Recovery to 99.35 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: ( Clear / Slightly Turbid / Very Turbid ) (Color: gray / brown / tan / reddish tint — )

| Containers Collected | (Size & Type) | | Preservatives |
|---|---|---|---|
| | 40 cc | glass vials | 1 + 1 HCL |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |

**OTHER**

Were metals filtered prior to preservation?: YES / NO / METALS NOT SAMPLED
Filtration Method: (gravity / vacuum / pressure ) Device Type: --na--
Filter: ( cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? YES / NO / ----

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

| Test | Result | |
|---|---|---|
| Temp: | --- | °C |
| pH: | --- | pH |
| S.C.: | --- | µmhos |

Notes: * TOC elevation data per EIS Survey of 9-25-96.

# MONITORING WELL SAMPLING FORM

Sample Date: 4 / 2 / 07 11 : 35 am / pm
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 --07-01-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

Well I.D.: MW-7
Sample I.D.: MW-7 / FD+ms/dms
Collector(s): Josh Sporleder / J.C. Sporleder
Lab No.: DQD0123L02 / DQD0123-06
MW-7 ↗ ↖ FD+ms/DMS

**PRE-PURGE**

Well Material: (PVC / Stainless / Galvanized / ----- )
Elevation top of Casing (TOC): 756.015* Ft
SWL Depth from TOC: 11.37 Ft
Well Depth from TOC: 42.15 Ft
Height of Water Column: 30.78 Ft
Volume/Foot Casing ($d^2$x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 5.023 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈753.915 Ft
SWL Elevation: 744.645 Ft
TOC to Grade: ≈2.1 Ft
Well Depth from Grade: ≈40.05 Ft

**PURGE**

Time & Date Purged: 11 : 03 am / pm 4 / 2 / 07
Calculated Volume to Purge: 15.07 Gallons
Actual Volume Purged: 15.25 Gallons
Purged: dry / 1 2 3 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

**SAMPLING**

Time & Date Sampled: 11 : 35 am / pm 4 / 2 / 07
Weather Conditions: Sky: clear Ground: weeds Wind: 10-15
Temp: 52°F Humidity: High / Moderate / Low %: — Precipitation: none
SWL (Depth From TOC) Prior to Sampling: 11.36 Ft
Height of Water Column Prior to Sampling: 30.79 19.39 Ft
Recovery to 100.07 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: ( Clear / Slightly Turbid / Very Turbid ) (Color: gray / brown / tan / — )

| Containers Collected | (Size & Type) | | Preservatives |
|---|---|---|---|
| | 40 cc | glass vials | 1 + 1 HCL |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |

**OTHER**

Were metals filtered prior to preservation?: YES / NO / METALS NOT SAMPLED
Filtration Method: (gravity / vacuum / pressure ) Device Type: --na--
Filter: ( cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? YES / NO / ----

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

| Test | Result | |
|---|---|---|
| Temp: | — | °C |
| pH: | — | pH |
| S.C.: | ---- | µmhos |

Notes: * TOC elevation data per EIS Survey of 9-25-96.
FD+ms/dms = FD = Field Duplicate collected from this well @ 11:40 Am on 4-2-07.

# MONITORING WELL SAMPLING FORM

Well I.D.: MW-10B
Sample I.D.: MW-10B
Collector(s): Josh Sporleder/D.C. Sporleder
Lab No.: DQD0123-03

Sample Date: 4 / 2 / 07 13 : 05 am / pm
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 --07 01-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

**PRE-PURGE**

Well Material: (PVC / Stainless / Galvanized / ----- )
Elevation top of Casing (TOC): 753.835* Ft
SWL Depth from TOC: 11 9.25 Ft
Well Depth from TOC: 54.18 Ft
Height of Water Column: 44.93 Ft
Volume/Foot Casing ($d^2$x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 7.33 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈754.135 Ft
SWL Elevation: 744.585 Ft
TOC to Grade: ≈(-0.3) Ft
Well Depth from Grade: ≈54.48 Ft

**PURGE**

Time & Date Purged: 12 : 40 am / pm 4 / 2 / 07
Calculated Volume to Purge: 21.99 Gallons
Actual Volume Purged: 22 Gallons
Purged: dry / 1 2 3 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ---- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

**SAMPLING**

Time & Date Sampled: 13 : 05 am / pm 4 / 2 / 07
Weather Conditions: Sky: clear Ground: concrete Wind: 0 MPH
Temp: 61°F Humidity: High / Moderate / Low %: — Precipitation: none
SWL (Depth From TOC) Prior to Sampling: 9.23 Ft
Height of Water Column Prior to Sampling: 44.95 Ft
Recovery to 100.04 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: ( Clear / Slightly Turbid / Very Turbid ) (Color: gray / brown / tan / — )

| Containers Collected | (Size & Type) | | Preservatives |
|---|---|---|---|
| | 40 cc | glass vials | 1 + 1 HCL |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |

**OTHER**

Were metals filtered prior to preservation?: YES / NO / METALS NOT SAMPLED
Filtration Method: (gravity / vacuum / pressure ) Device Type: --na--
Filter: ( cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? YES / NO / ----

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

| Test | Result | |
|---|---|---|
| Temp: | --- | °C |
| pH: | --- | pH |
| S.C.: | --- | µmhos |

Notes: * TOC elevation data per EIS Survey of 9-25-96.

# MONITORING WELL SAMPLING FORM

Well I.D.: MW-14
Sample I.D.: MW-14
Collector(s): Josh Sporleder / J.C. Sporleder
Lab No.: DQD 0123-04

Sample Date: 4 / 2 / 07 13 :45 am / pm
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 --07 01-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

**PRE-PURGE**

Well Material: (PVC / Stainless / Galvanized / ----- )
Elevation top of Casing (TOC): 756.47* Ft
SWL Depth from TOC: 11.62 Ft
Well Depth from TOC: 49.20 Ft
Height of Water Column: 37.58 Ft
Volume/Foot Casing ($d^2$x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 6.13 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈754.02 Ft
SWL Elevation: 744.85 Ft
TOC to Grade: ≈2.45 Ft
Well Depth from Grade: ≈46.75 Ft

**PURGE**

Time & Date Purged: 13:20 am / pm 4 / 2 / 07
Calculated Volume to Purge: 18.40 Gallons
Actual Volume Purged: 18.50 Gallons
Purged: dry / 1 2 3 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

**SAMPLING**

Time & Date Sampled: 13 : 45 am / pm 4 / 2 / 07
Weather Conditions: Sky: clear Ground: gravel Wind: 10 MPH
Temp: 61 °F Humidity: High / Moderate / Low %: — Precipitation: none
SWL (Depth From TOC) Prior to Sampling: 11.60 Ft
Height of Water Column Prior to Sampling: 37.60 Ft
Recovery to 100.05 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: --- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: (Clear / Slightly Turbid / Very Turbid ) (Color: gray / brown / tan / — )

| Containers Collected | (Size & Type) | | Preservatives |
|---|---|---|---|
| | 40 cc | glass vials | 1 + 1 HCL |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |

**OTHER**

Were metals filtered prior to preservation?: YES / NO / METALS NOT SAMPLED
Filtration Method: (gravity / vacuum / pressure ) Device Type: --na--
Filter: ( cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? YES / NO / ----

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

| Test | Result | |
|---|---|---|
| Temp: | --- | °C |
| pH: | --- | pH |
| S.C.: | --- | µmhos |

Notes: * TOC elevation data per EIS Survey of 9-25-96.

# MONITORING WELL SAMPLING FORM

Well I.D.: MW-15
Sample I.D.: MW-15
Collector(s): Josh Sporleder/J.C. Sporleder
Lab No.: DQD0123-05

Sample Date: 4 / 2 / 07 14 : 25 am / pm
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 --07 01-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

**PRE-PURGE**

Well Material: (PVC / Stainless / Galvanized / ----- )
Elevation top of Casing (TOC): 755.75* Ft
SWL Depth from TOC: 10.84 Ft
Well Depth from TOC: 47.60 Ft
Height of Water Column: 36.76 Ft
Volume/Foot Casing ($d^2$x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 5.99 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈ 753.35 Ft
SWL Elevation: 744.91 Ft
TOC to Grade: ≈ 2.4 Ft
Well Depth from Grade: ≈ 45.2 Ft

**PURGE**

Time & Date Purged: 14 : 00 am / pm 4 / 2 / 07
Calculated Volume to Purge: 17.997 Gallons
Actual Volume Purged: 18.00 Gallons
Purged: dry / 1 2 3 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

**SAMPLING**

Time & Date Sampled: 14 : 25 am / pm 4 / 2 / 07
Weather Conditions: Sky: clear Ground: gravel Wind: 5 MPH
Temp: 62°F Humidity: High / Moderate / Low %: 0 — Precipitation: none
SWL (Depth From TOC) Prior to Sampling: 10.83 Ft
Height of Water Column Prior to Sampling: 36.77 Ft
Recovery to 100.03 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
Bailer (PVC / SS / Teflon / ----- )
Rope Material: (Polypropylene / other: ---- )
Equipment Dedicated? YES / NO Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: ( Clear / Slightly Turbid / Very Turbid ) (Color: gray / brown / tan / — )

| Containers Collected | (Size & Type) | | Preservatives |
|---|---|---|---|
| | 40 cc | glass vials | 1 + 1 HCL |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |
| | --- | --- | --- |

**OTHER**

Were metals filtered prior to preservation?: YES / NO / METALS NOT SAMPLED
Filtration Method: (gravity / vacuum / pressure ) Device Type: --na--
Filter: ( cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? YES / NO / ----

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

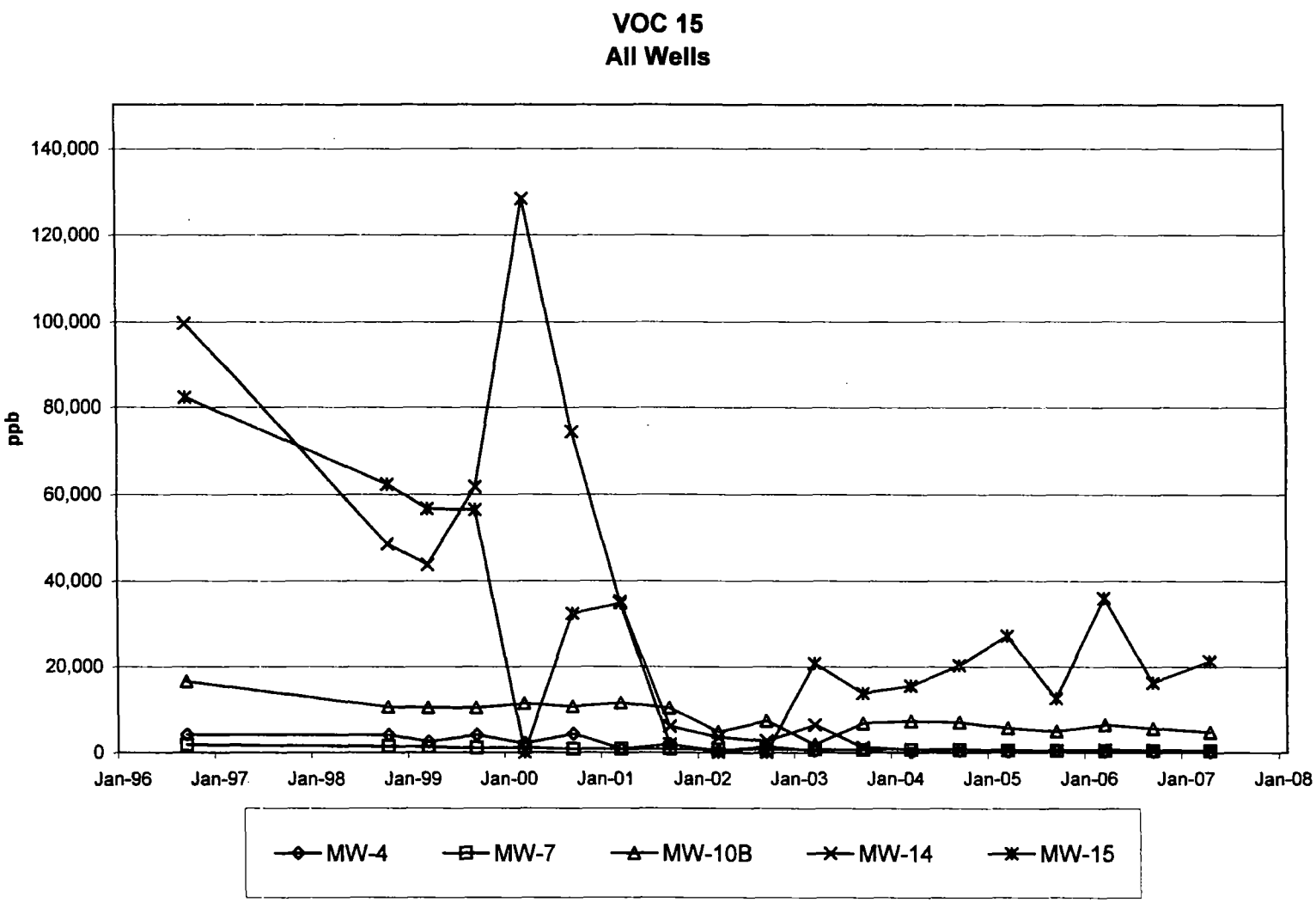
| Test | Result | |
|---|---|---|
| Temp: | --- | °C |
| pH: | --- | pH |
| S.C.: | --- | µmhos |

Notes: * TOC elevation data per EIS Survey of 9-25-96.

# APPENDIX D

# TREND GRAPHS

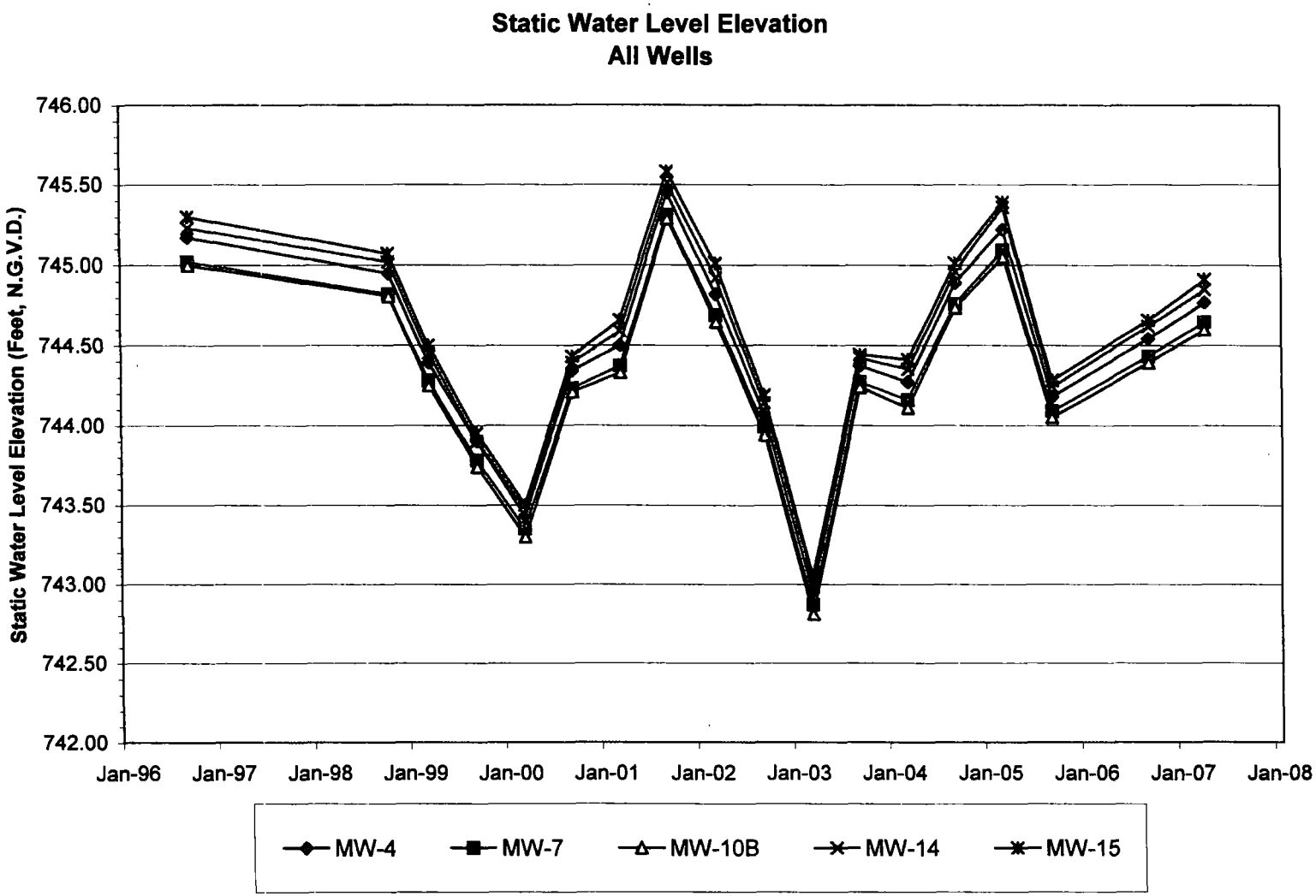
# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart VOC 15 (All Wells)
Prepared by Heartland Environmental Associates, Inc.

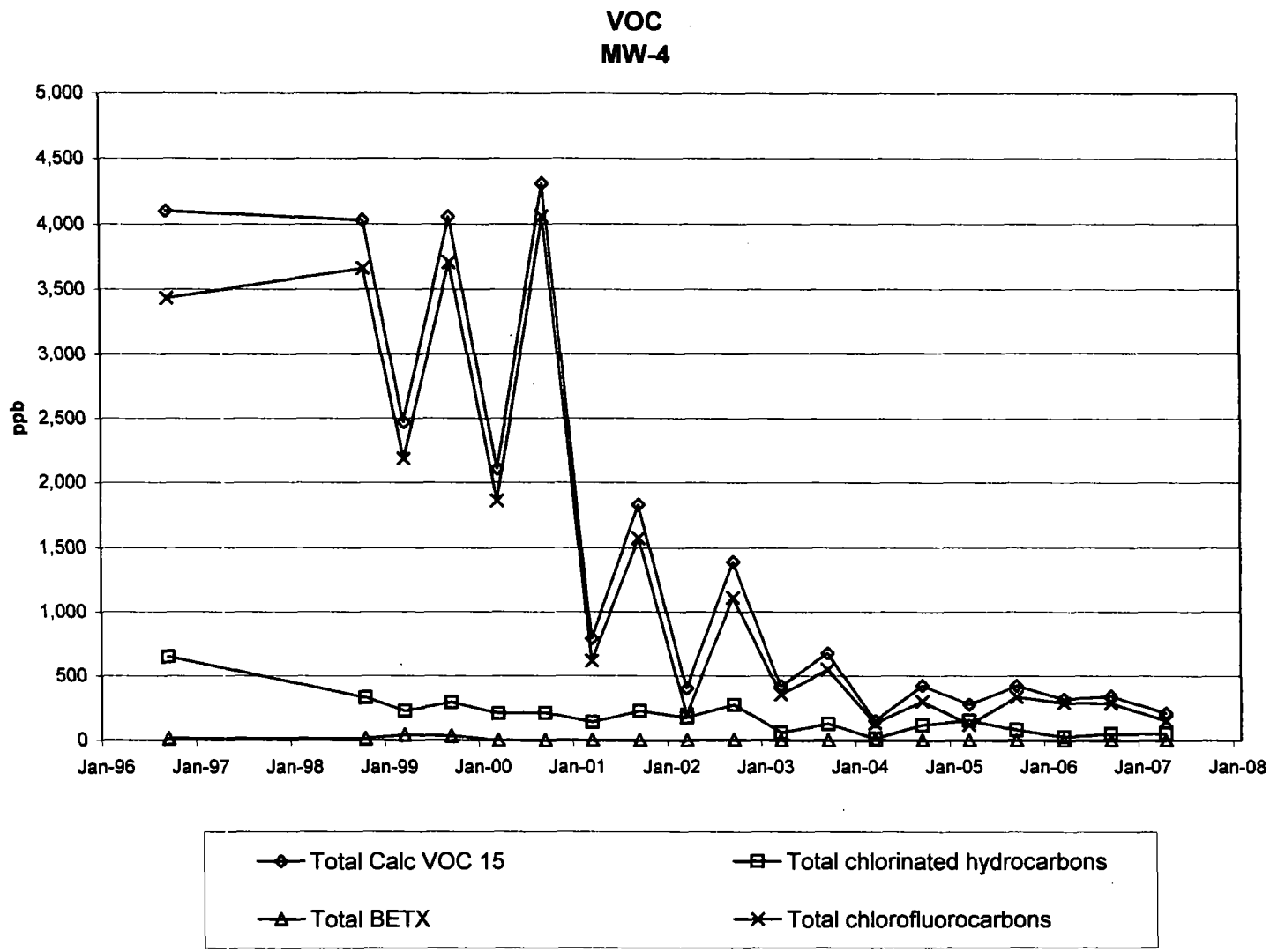
# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana



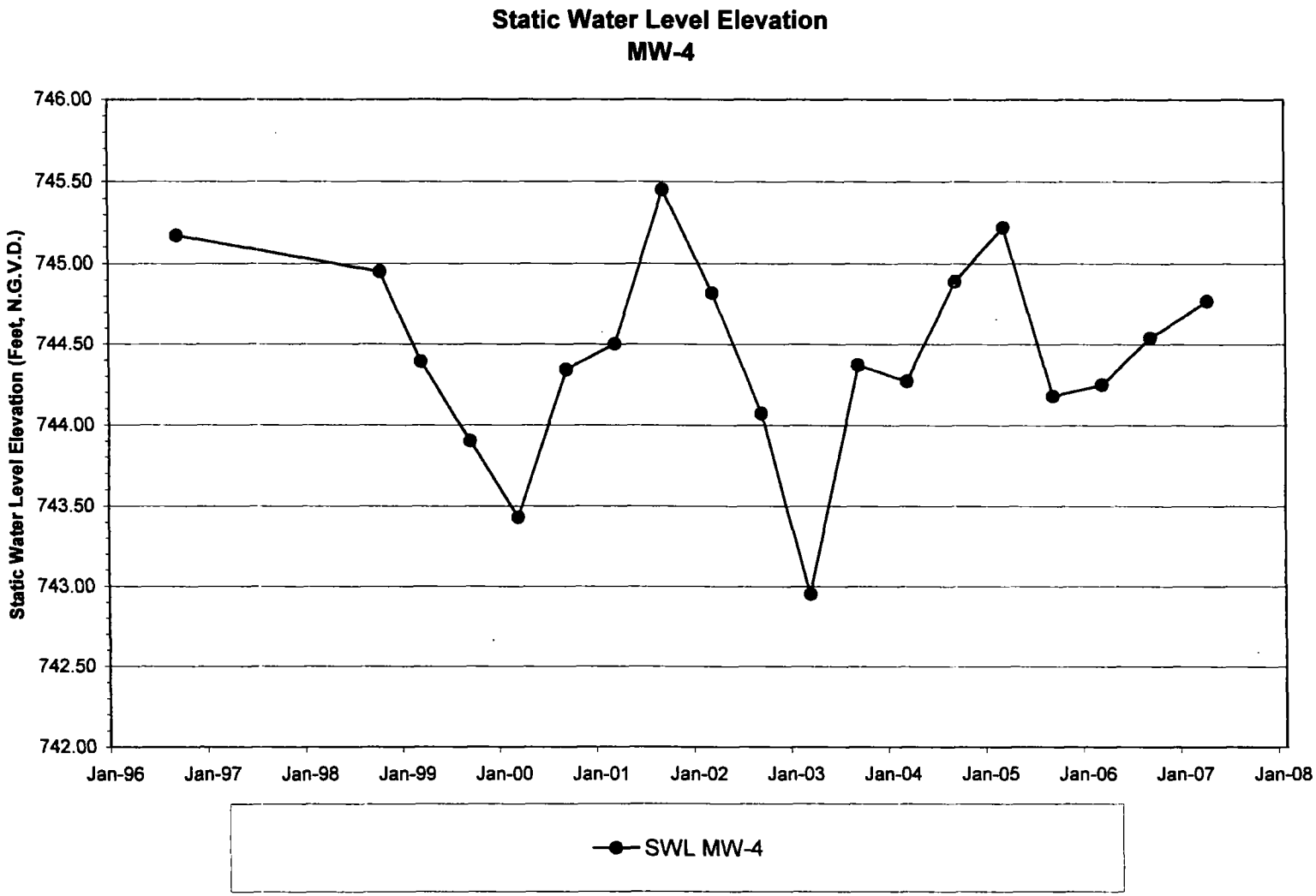

4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart SWL (All Wells)
Prepared by Heartland Environmental Associates, Inc.

# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana



# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana

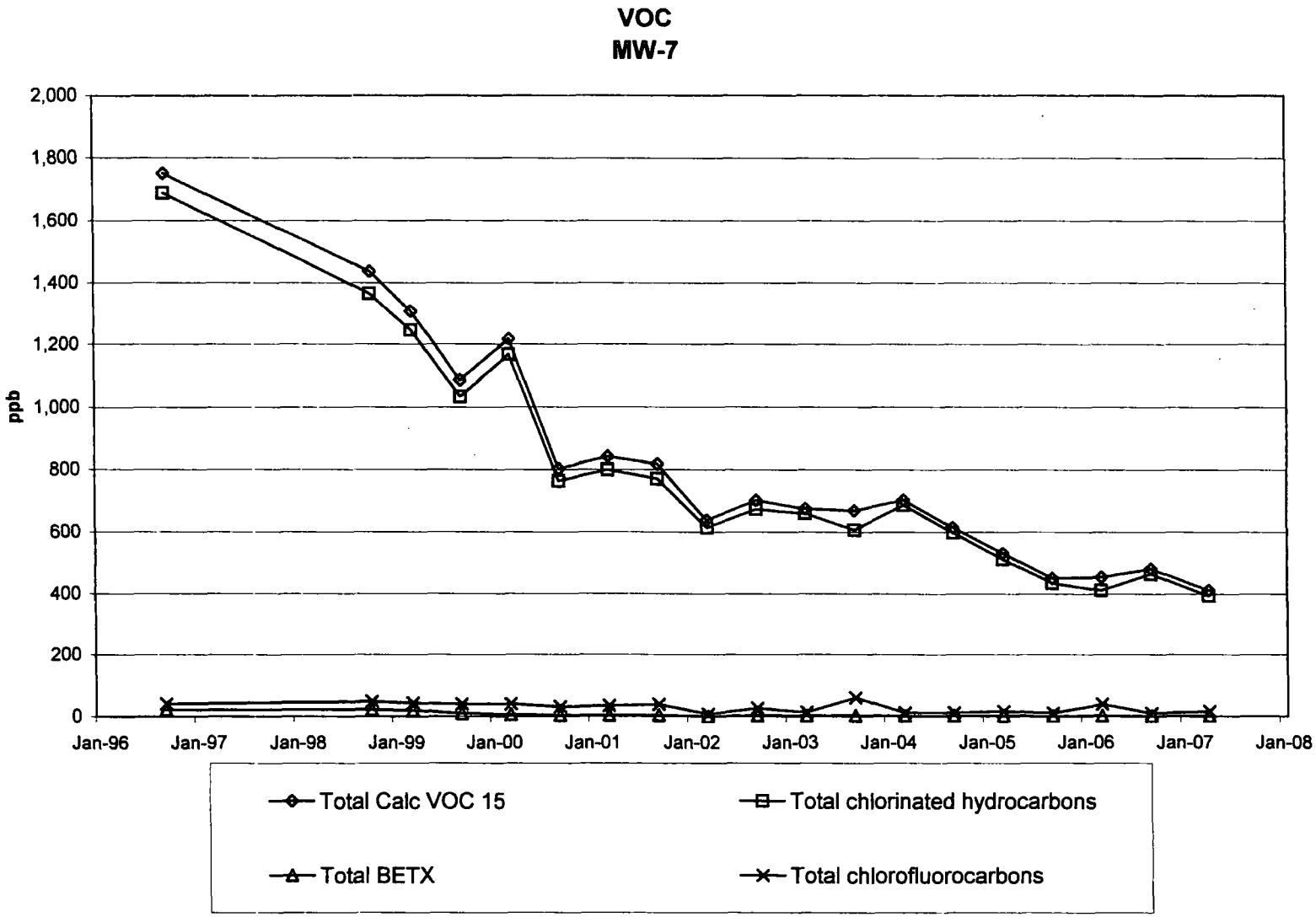


# Accra Pac - Warner Baker Site
## 2626 Industrial Parkway
## Elkhart, Indiana
## Groundwater Monitoring Data

| MW-4 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/30/1996 | 10/1/1998 | 3/30/1999 | 9/30/1999 | 3/29/2000 | 9/25/2000 | 3/22/2001 | 9/19/2001 | 3/20/2002 | 9/24/2002 | 3/18/2003 | 9/25/2003 | 3/18/2004 | 9/21/2004 | 3/24/2005 | 9/1/2005 | 3/15/2006 | 9/14/2006 | 4/2/2007 |
| 1,2-Dichlorobenzene | <1 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethane | 580 | 220 | 120 | 190 | 170 | 180 | 110 | 170 | 160 | 211 | 48.9 | 86.6 | 6.8 | 102 | 145 | 57.7 | 19.6 | 36 | 46.7 |
| 1,2-Dichloroethane | <1 | 9.8 | 7 | 5.8 | 5.9 | <5 | <5 | <5 | <5 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | <1 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | 9.5 | <1 | 7.0 | <1 | <1 | <1 | 1.8 | <1 | 1.23 | <1 |
| c-1,2-Dichloroethene | 6.6 | 7.4 | 22 | 6 | <5 | <5 | 18 | 16 | <5 | 5.7 | <1 | 1.7 | <1 | 2.1 | <1 | <1 | <1 | <1 | <1 |
| Dichlorofluoromethane | 43 | 90 | 74 | 86 | 63 | 47 | 36 | 75 | <5 | 48.3 | <1 | 26.2 | <5 | <5 | <5 | <5 | 5 | <5 | 3.49 |
| Ethylbenzene | <1 | <5 | 9.4 | 6.5 | <5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 7.6 | 15 | 8.2 | 11 | 7.4 | <5 | <5 | 5.5 | <5 | 5.1 | 2.3 | 4.3 | 1.5 | 3.0 | 1.4 | 4.0 | 1.5 | 2.05 | 1.46 |
| Toluene | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 1.8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 36 | 68 | 46 | 74 | 20 | 29 | 9.7 | 28 | 9.2 | 36.9 | 7.8 | 23.2 | 3.8 | 9.4 | 5.6 | 15.9 | 4.8 | 9.81 | 4.41 |
| Trichloroethene | 6.4 | 13 | 12 | 7.1 | 5 | <5 | <5 | 5 | <5 | 2.6 | <1 | 1.1 | <1 | <1 | <1 | 1.1 | <1 | <1 | <1 |
| Trichlorofluoromethane | <1 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | 11.9 | 1.2 | 7.9 | <1 | 1.6 | <1 | 3.3 | <1 | 2.19 | <1 |
| 1,1,2-Trichlorotrifluoroethane | 3390 | 3570 | 2110 | 3620 | 1800 | 4010 | 580 | 1500 | 200 | 1050 | 354 | 514 | 130 | 300 | 119 | 332 | 283 | 284 | 147 |
| Vinyl chloride | 14 | <10 | 12 | <10 | <10 | <10 | <10 | <10 | 7.1 | 2.2 | <1 | 1.2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Xylenes | 13 | 14 | 32 | 26 | <10 | <10 | <10 | <10 | <5 | 1.9 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <3 | <2 |
| Total Calc VOC 15 | 4099.1 | 4030.2 | 2470.1 | 4054.9 | 2103.8 | 4306 | 791.2 | 1832 | 403.8 | 1389.2 | 419.2 | 675.7 | 149.6 | 424.6 | 278 | 422.3 | 319.4 | 342.78 | 208.56 |
| Total chlorinated hydrocarbons | 650.6 | 331.2 | 227.1 | 293.9 | 208.3 | 209 | 137.7 | 225 | 176.3 | 274.3 | 59 | 125.1 | 12.1 | 116.5 | 152 | 80 | 25.9 | 49.09 | 52.57 |
| Total BETX | 13 | 14 | 41.4 | 32.5 | 0 | 0 | 0 | 0 | 0 | 3.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total chlorofluorocarbons | 3433 | 3660 | 2184 | 3706 | 1863 | 4057 | 616 | 1575 | 200 | 1110.2 | 355 | 548.1 | 130 | 301.6 | 119 | 335.3 | 288 | 286.2 | 150.5 |
| Static Water Level Elevation (Ft | 745.17 | 744.95 | 744.39 | 743.90 | 743.43 | 744.34 | 744.50 | 745.45 | 744.82 | 744.07 | 742.95 | 744.37 | 744.27 | 744.89 | 745.22 | 744.18 | 744.25 | 744.54 | 744.77 |

**NOTE:**
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons: Non-detect values=zero.

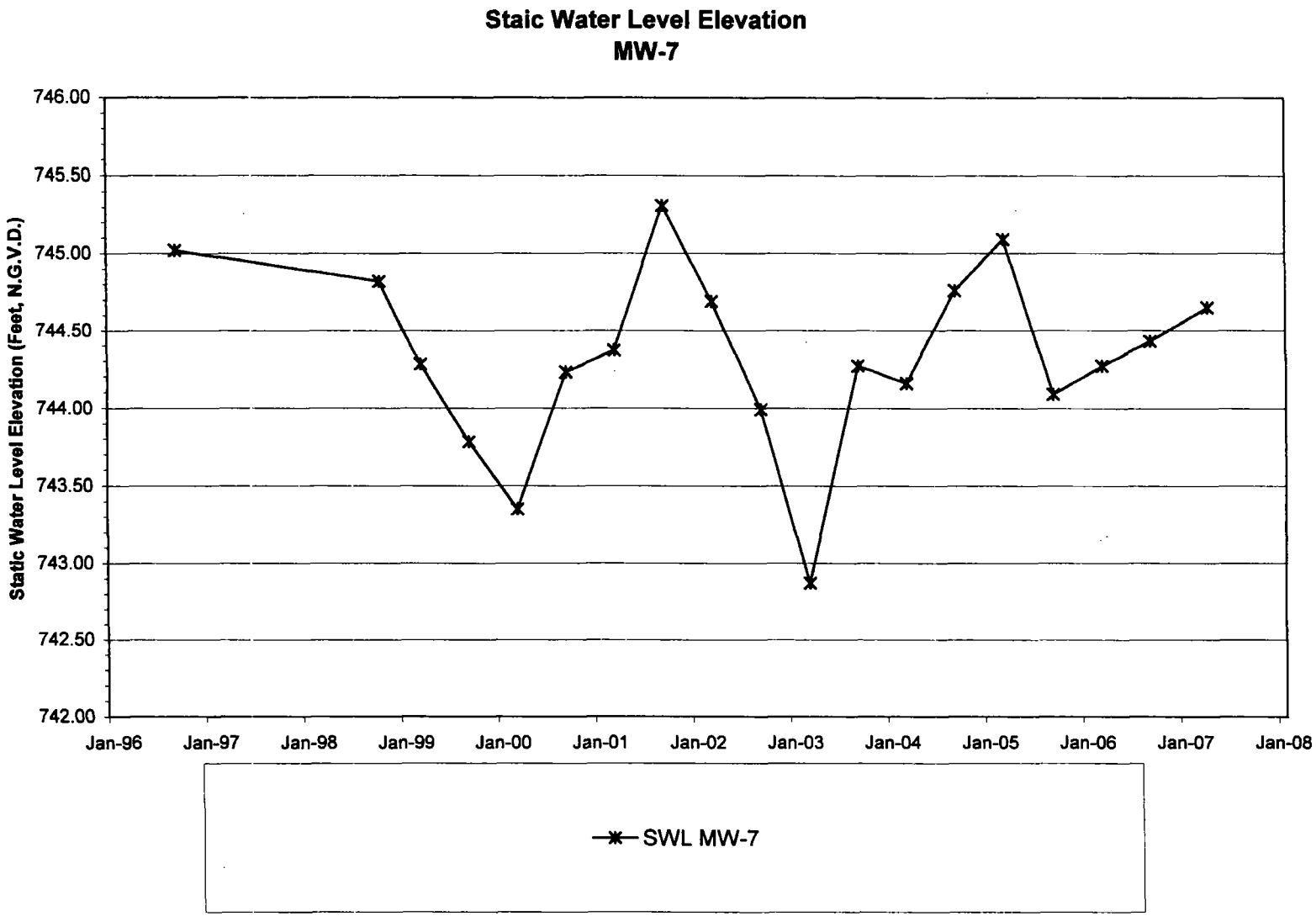
# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-7 (VOC)
Prepared by Heartland Environmental Associates, Inc.

# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-7 (SWL)
Prepared by Heartland Environmental Associates, Inc.

# Accra Pac - Warner Baker Site
## 2626 Industrial Parkway
## Elkhart, Indiana
## Groundwater Monitoring Data

| MW-7 | 9/30/1996 | 10/1/1998 | 3/30/1999 | 9/30/1999 | 3/29/2000 | 9/25/2000 | 3/22/2001 | 9/19/2001 | 3/20/2002 | 9/24/2002 | 3/18/2003 | 9/25/2003 | 3/18/2004 | 9/21/2004 | 3/24/2005 | 9/1/2005 | 3/15/2006 | 9/14/2006 | 4/2/2007 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 25 | 17 | 17 | 14 | 6.6 | 10 | 8.9 | 9.5 | 8.1 | 9.3 | 9.5 | 8.6 | 7.3 | 6.3 | 5.7 | 3.4 | 5.9 | 5.65 | 4.14 |
| 1,1-Dichloroethane | 1020 | 1030 | 940 | 810 | 910 | 550 | 570 | 540 | 430 | 491 | 512 | 452 | 535 | 460 | 398 | 329 | 303 | 370 | 293 |
| 1,2-Dichloroethane | 5.6 | 11 | 11 | 7.6 | 7.3 | 3.1 | 3.6 | 3.2 | 5.1 | 5.6 | 4 | 3.7 | 2.3 | 2.2 | 2.8 | 2.3 | 1.8 | <1 | 1.75 |
| 1,1-Dichloroethene | 24 | 9.2 | 9.1 | 6.9 | 8.7 | 6.8 | 10 | 5.2 | <5 | 3.3 | 2.9 | 3.6 | 2.6 | 3.0 | 2.8 | 2.1 | 2.5 | 2.08 | 2.35 |
| c-1,2-Dichloroethane | 110 | 37 | 34 | 30 | 45 | 35 | 51 | 38 | 35 | 24.6 | 20.2 | 22.4 | 23.1 | 24.2 | 24.4 | 18.8 | 20.8 | 21.1 | 23.9 |
| Dichlorofluoromethane | <1 | 28 | 26 | 21 | 23 | 15 | 20 | 15 | <5 | 9.9 | <1 | 43 | <5 | <5 | 5.2 | <5 | 7 | <5 | 4.62 |
| Ethylbenzene | 8 | 11 | 9.7 | 7.2 | 3.7 | 3.5 | 3.1 | 3.3 | <5 | 2.4 | 1.7 | 2.3 | 1.6 | 1.7 | 1.8 | 1.2 | 1.5 | 1.23 | 1.25 |
| Tetrachloroethene | 6.3 | 6.7 | 5.9 | 5.1 | 5.3 | 3.3 | 4.1 | 4.7 | <5 | 4.8 | 4.4 | 5.7 | 4.9 | 4.9 | 4.6 | 4.0 | 5.3 | 4.46 | 5.31 |
| Toluene | 2.8 | 4 | 3.3 | 2.2 | 2 | <2 | <2 | <2 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 440 | 200 | 180 | 130 | 160 | 130 | 120 | 140 | 110 | 103 | 77 | 78 | 71.7 | 64.0 | 54.9 | 47.8 | 41.5 | 36.4 | 37.4 |
| Trichloroethene | 8.3 | 11 | 13 | 10 | 9.1 | 11 | 13 | 17 | 13 | 16.4 | 15.6 | 19.5 | 19.8 | 22.4 | 18 | 16.4 | 18.2 | 18.8 | 17.7 |
| Trichlorofluoromethane | <1 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <5 | 2.2 | 1.2 | 1.5 | 1.2 | 1.0 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichlorotrifluoroethane | 40 | 19 | 16 | 18 | 17 | 15 | 14 | 23 | 6.7 | 13.8 | 11.3 | 15 | 9.9 | 10.2 | 10.0 | 10.1 | 32.2 | 9.84 | 10.6 |
| Vinyl chloride | 50 | 44 | 37 | 20 | 16 | 14 | 18 | 13 | 12 | 15.4 | 13.4 | 12.0 | 20.4 | 10.3 | <1 | 10.6 | 11.9 | 5.24 | 7.39 |
| Xylenes | 9.6 | 6.4 | 5.9 | <4 | <4 | <4 | <4 | <4 | <5 | <1 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <3 | <2 |
| Total Calc VOC 15 | 1750.6 | 1436.3 | 1309.9 | 1086 | 1217.7 | 801.7 | 840.7 | 817 | 637.4 | 702.7 | 674.7 | 668.3 | 703.3 | 613.7 | 530.7 | 450.2 | 453.6 | 480.3 | 411.41 |
| Total chlorinated hydrocarbons | 1689.2 | 1365.9 | 1247 | 1033.6 | 1168 | 763.2 | 798.6 | 771 | 613.2 | 657 | 659 | 605 | 687.1 | 597.3 | 511.2 | 434.4 | 410.9 | 463.7 | 392.9 |
| Total BETX | 20.4 | 21.4 | 18.9 | 9.4 | 5.7 | 3.5 | 3.1 | 3 | 0 | 2.4 | 1.7 | 2.3 | 1.6 | 1.7 | 1.8 | 1.2 | 1.5 | 1.2 | 1.3 |
| Total chlorofluorocarbons | 40 | 47 | 42 | 39 | 40 | 30 | 34 | 38 | 6.7 | 25.9 | 12.5 | 59.5 | 11.1 | 11.2 | 527 | 10.1 | 39.2 | 9.8 | 15.2 |
| Static Water Level Elevation (Ft) | 745.02 | 744.83 | 744.28 | 743.78 | 743.35 | 744.23 | 744.37 | 745.31 | 744.69 | 743.99 | 742.87 | 744.27 | 744.16 | 744.76 | 745.09 | 744.09 | 744.16 | 744.43 | 744.65 |

**NOTE:**

For graphing purposes, non-dedect values are calculated as follows:

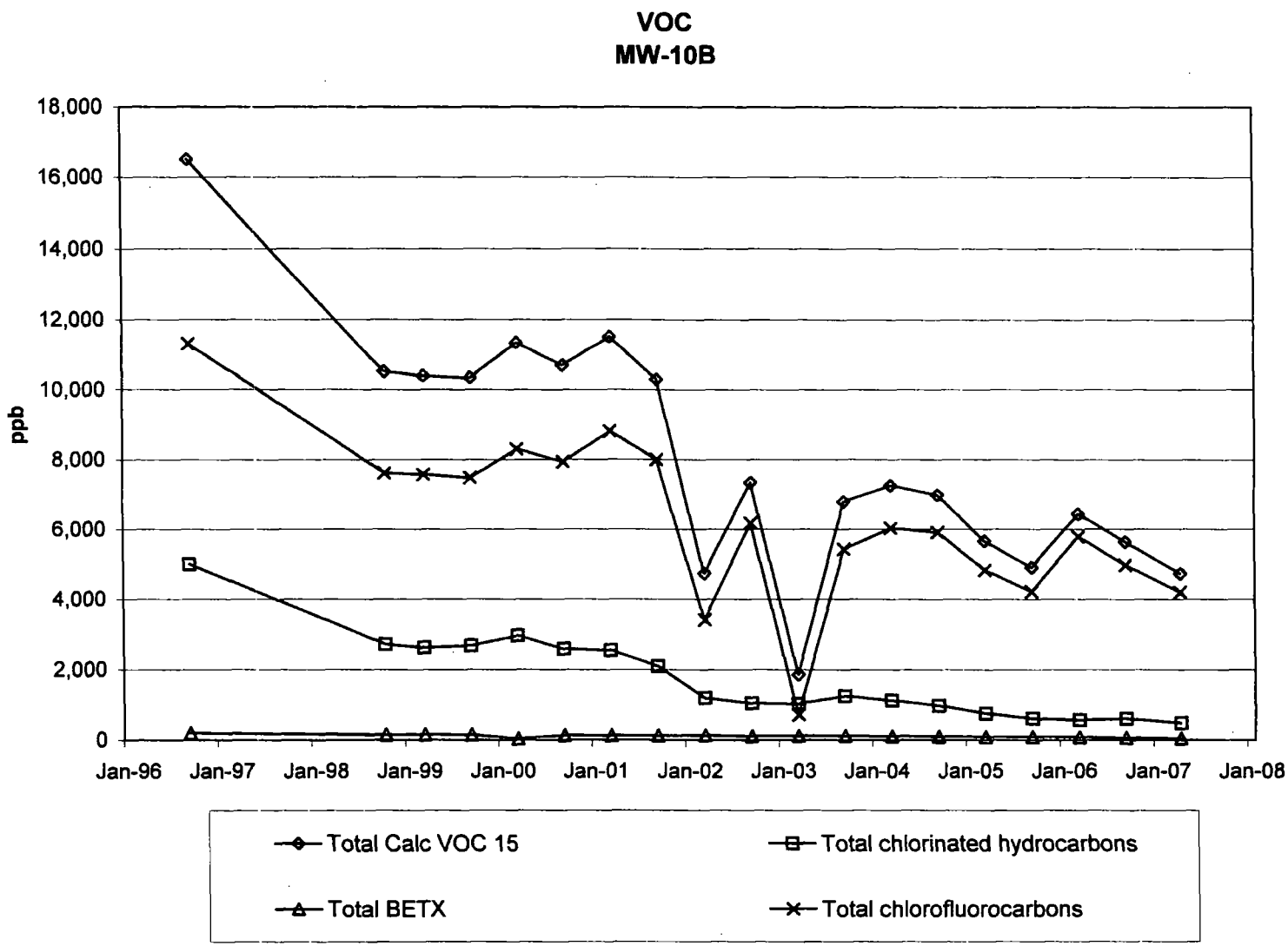
Total Calc. VOC 15: Non-detect values=1/2 detection limit.

Total chlorinated hydrocarbons: Non-detect values=zero.

Total BETX: Non-detect values=zero.

Total chlorofluorcarbons: Non-detect values=zero.

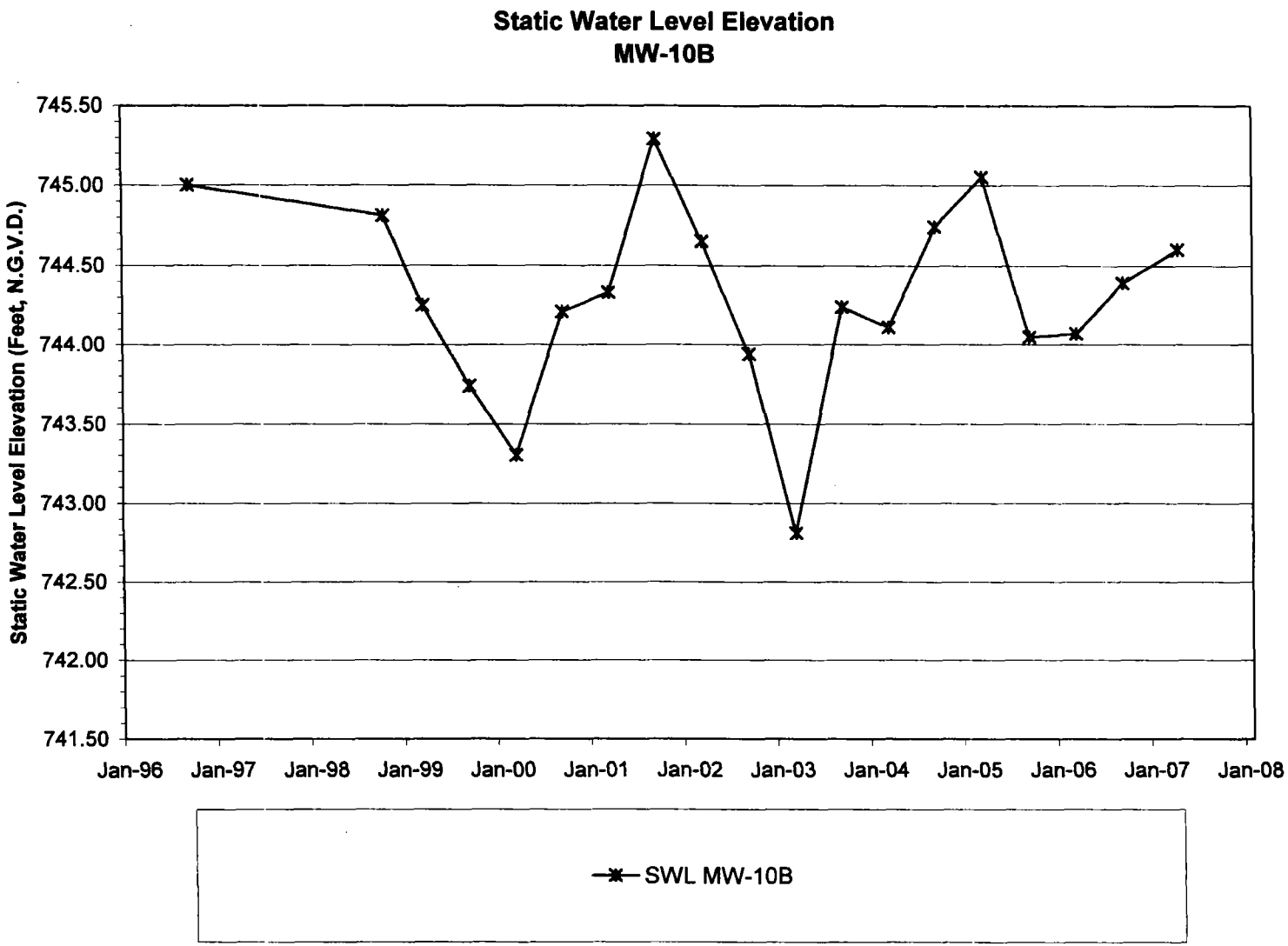
# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-10B (VOC)
Prepared by Heartland Environmental Associates, Inc.

# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

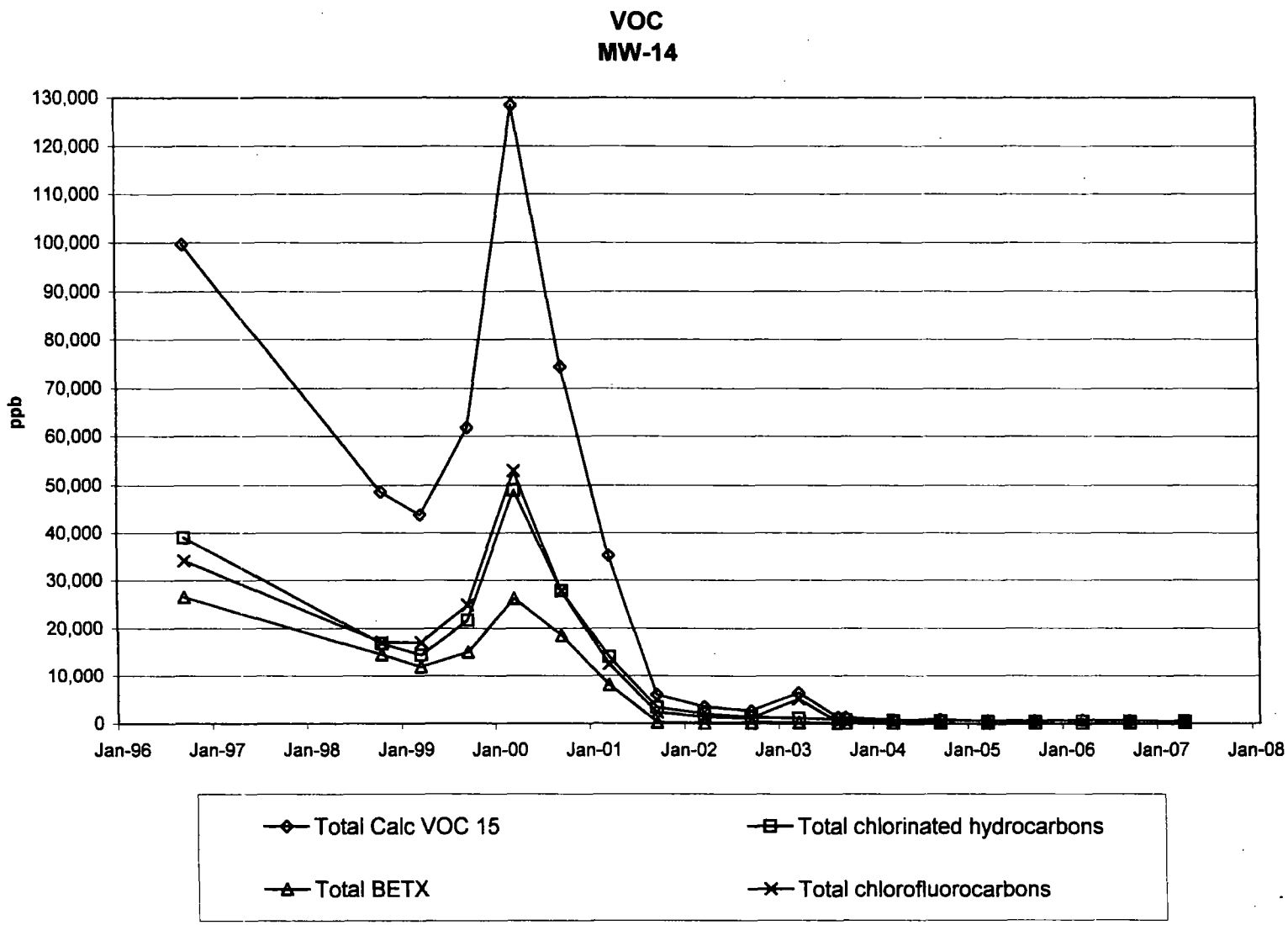
1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-10B (SWL)
Prepared by Heartland Environmental Associates, Inc.

**Accra Pac - Warner Baker Site**
**2626 Industrial Parkway**
**Elkhart, Indiana**
**Groundwater Monitoring Data**

| MW-10B | 9/30/1996 | 10/1/1998 | 3/30/1999 | 9/30/1999 | 3/29/2000 | 9/25/2000 | 3/22/2001 | 9/19/2001 | 3/20/2002 | 9/24/2002 | 3/18/2003 | 9/25/2003 | 3/18/2004 | 9/21/2004 | 3/24/2005 | 9/1/2005 | 3/15/2006 | 9/14/2006 | 4/2/2007 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | <1 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethane | 2460 | 1470 | 1430 | 1540 | 1740 | 1550 | 1570 | 1100 | 590 | 511 | 538 | 710 | 663 | 585 | 393 | 296 | 275 | 335 | 266 |
| 1,2-Dichloroethane | 15 | 10 | 12 | 10 | 11 | 10 | 11 | <10 | 8.3 | <5 | 4.5 | 5.6 | 3.7 | 3.2 | <1 | 1.8 | 1.4 | <1 | 1.53 |
| 1,1-Dichloroethene | 84 | 39 | 43 | 42 | 45 | 36 | 48 | 26 | 14 | 40.2 | 21.7 | 37.7 | 21.6 | <1 | 19.8 | 20.5 | <1 | 22.2 | <1 |
| c-1,2-Dichloroethene | 44 | 39 | 32 | 31 | 30 | 24 | 29 | 28 | 15 | 13.4 | 13.7 | 14.4 | 13.3 | 13.3 | 9.8 | 6.2 | 7.1 | 6.05 | 6.79 |
| Dichlorofluoromethane | <1 | 180 | 550 | 470 | 800 | 800 | 820 | <50 | 67 | 174 | 17 | 249 | <5 | 76.9 | 65.7 | <5 | 81.4 | <5 | 85.0 |
| Ethylbenzene | 39 | 29 | 33 | 31 | 31 | 22 | 27 | 34 | 25 | 23.6 | 22 | 24.4 | 21.8 | 20.8 | 18.9 | 17.1 | 18.2 | 16.8 | 14.5 |
| Tetrachloroethene | 440 | 280 | 290 | 350 | 370 | 320 | 320 | 390 | 250 | 223 | 219 | 248 | 201 | 218 | 203 | 183 | 186 | 167 | 152 |
| Toluene | <1 | <10 | <10 | 10 | 11 | 10 | <10 | <10 | 5 | <5 | 4 | 3.6 | 3.3 | 2.8 | 2.6 | 2.0 | 2.1 | 1.35 | 1.02 |
| 1,1,1-Trichloroethane | 1940 | 870 | 810 | 700 | 760 | 640 | 560 | 547 | 310 | 255 | 220 | 221 | 162 | 145 | 112 | 87.7 | 82.3 | 61.5 | 45.7 |
| Trichloroethene | <1 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | <5 | 5 | 5.8 | 4.9 | 4.9 | 5.2 | 4.1 | 4.9 | 4.63 | 4.43 |
| Trichlorofluoromethane | 810 | 170 | 200 | 180 | 190 | 130 | 120 | <20 | 39 | 33.6 | 21.6 | 26.6 | 21.6 | 22.2 | <1 | 11.1 | 14.2 | 10.1 | 8.25 |
| 1,1,2-Trichlorotrifluoroethane | 10500 | 7270 | 6830 | 6830 | 7310 | 7010 | 8070 | 8000 | 3300 | 5970 | 677 | 5150 | 6010 | 5810 | 4760 | 4200 | 5690 | 4960 | 4100 |
| Vinyl chloride | 18 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | 4.1 | <5 | 3.6 | 3.4 | 47.6 | 2.4 | 5.6 | 2.5 | 8.7 | 4.77 | 2.97 |
| Xylenes | 160 | 120 | 120 | 110 | <20 | 100 | 100 | 88 | 100 | 85.8 | 90.8 | 89.7 | 82.4 | 74.4 | 61.0 | 66.1 | 61.7 | 43.7 | 33.0 |
| Total Calc VOC 15 | 16512 | 10507 | 10380 | 10329 | 11333 | 10677 | 11505 | 10283 | 4732.4 | 7329.6 | 1858.4 | 6789.7 | 7259.2 | 6979.9 | 5658.1 | 4901.1 | 6434 | 5636.6 | 4722.19 |
| Total chlorinated hydrocarbons | 5001 | 2708 | 2817 | 2673 | 2956 | 2580 | 2538 | 2091 | 1191.4 | 1042.6 | 1025.5 | 1245.9 | 1117.1 | 971.8 | 748.4 | 601.8 | 565.4 | 601.15 | 479.42 |
| Total BETX | 199 | 149 | 153 | 151 | 42 | 132 | 127 | 122 | 130 | 109.4 | 116.8 | 117.7 | 107.5 | 98 | 82.5 | 85.2 | 82 | 61.85 | 48.52 |
| Total chlorofluorocarbons | 11310 | 7620 | 7580 | 7480 | 8300 | 7940 | 8810 | 8000 | 3406 | 6177.6 | 715.6 | 5425.6 | 6031.6 | 5909.1 | 4825.7 | 4211.1 | 5785.6 | 4970.1 | 4193.25 |
| Static Water Level Elevation (Ft) | 745 | 744.81 | 744.25 | 743.74 | 743.3 | 744.21 | 744.33 | 745.29 | 744.65 | 743.94 | 742.81 | 744.24 | 744.11 | 744.74 | 745.05 | 744.05 | 744.07 | 744.39 | 744.60 |

**NOTE:**
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons: Non-detect values=zero.

# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana

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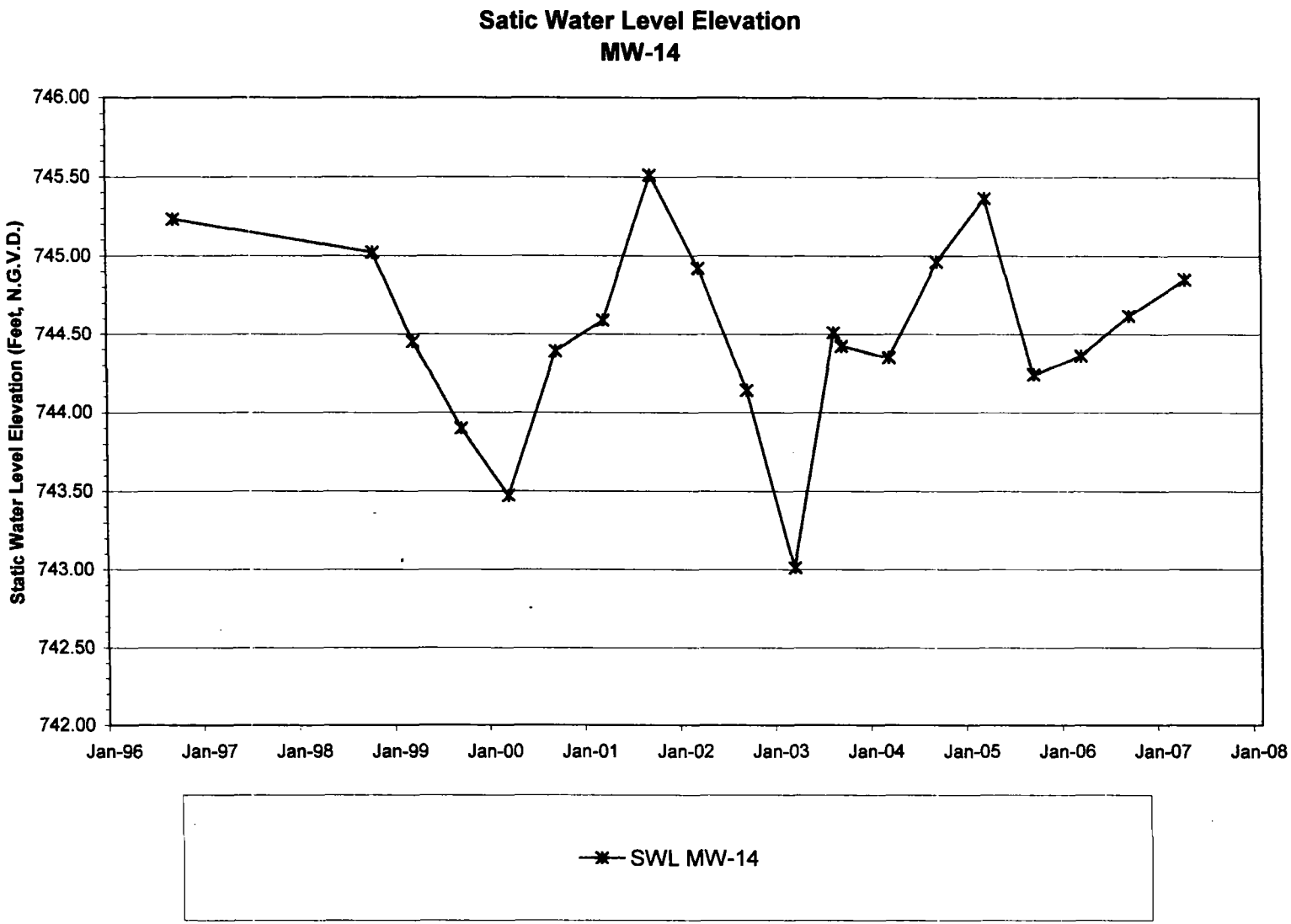
1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-14 (VOC)
Prepared by Heartland Environmental Associates, Inc.

# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana

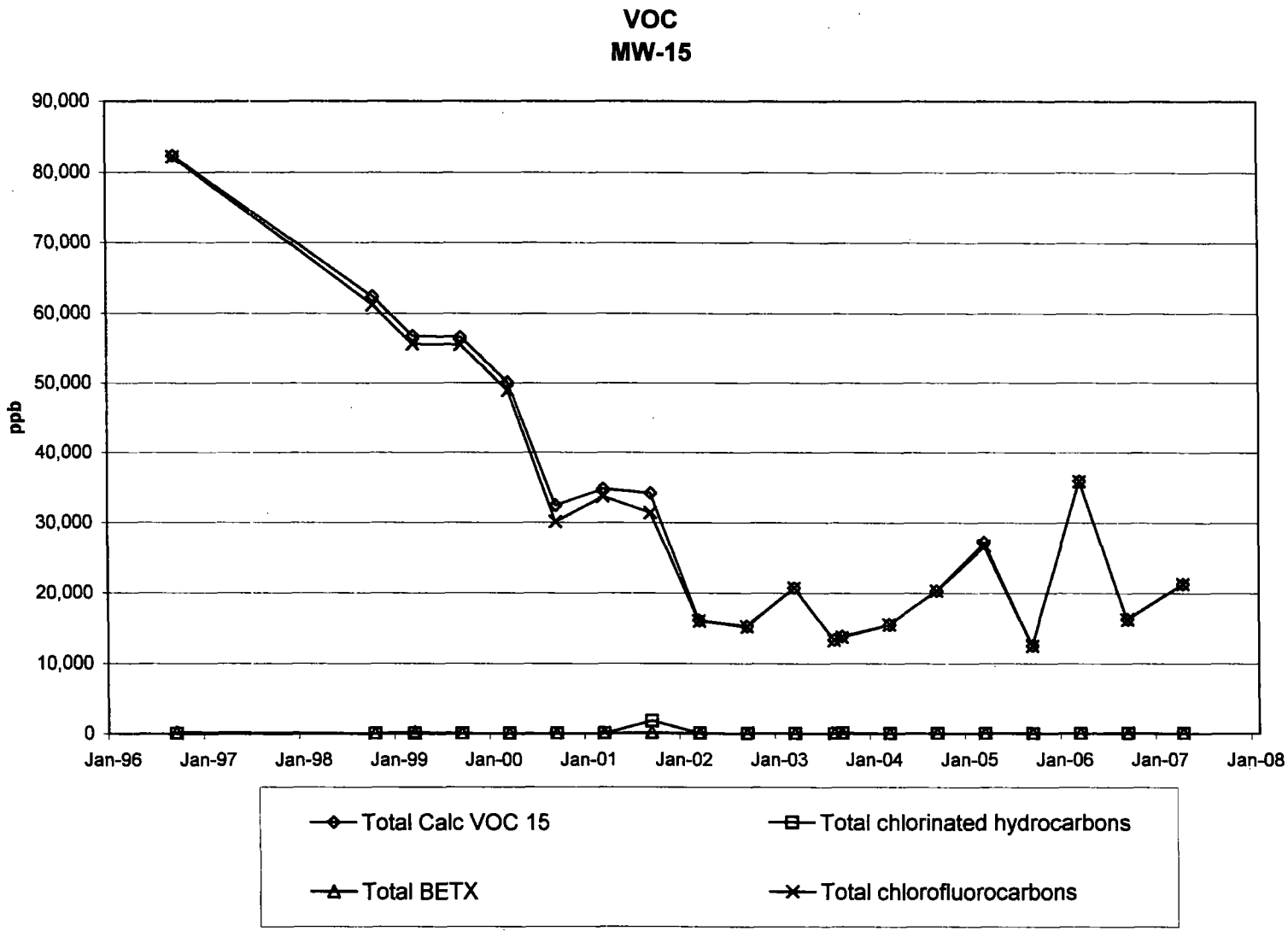


**Accra Pac - Warner Baker Site**
**2626 Industrial Parkway**
**Elkhart, Indiana**
**Groundwater Monitoring Data**

| MW-14 | 9/30/1998 | 10/1/1998 | 3/30/1999 | 9/30/1999 | 3/29/2000 | 9/25/2000 | 3/22/2001 | 9/19/2001 | 3/20/2002 | 9/24/2002 | 3/18/2003 | 8/12/2003 | 9/25/2003 | 3/18/2004 | 9/21/2004 | 3/24/2005 | 9/1/2005 | 3/15/2006 | 9/14/2006 | 4/2/2007 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | <1 | <200 | <200 | <200 | <200 | <200 | <200 | 8.2 | 6.4 | <1 | 5.2 | 4.1 | <1 | 1.4 | 1.5 | 1.6 | 1.4 | 1.8 | 1.36 | 1.58 |
| 1,1-Dichloroethane | 4370 | 2020 | 1770 | 2290 | 3340 | 1760 | 1080 | 685 | 330 | 258 | 261 | 162 | 117 | 69.2 | 57.7 | 49.9 | 75.0 | 82.0 | 80.1 | 69.3 |
| 1,2-Dichloroethane | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 5.4 | <5 | 2 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 1030 | 550 | 550 | 710 | 1580 | 810 | 600 | 25 | 10 | <1 | 7.3 | 2.7 | 5.3 | <1 | <1 | <1 | 1.1 | <1 | <1 | <1 |
| c-1,2-Dichloroethene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 19 | 12 | 8.8 | 7.3 | 4.8 | 3.9 | 2.3 | 2.1 | 2.4 | 4.2 | 4.5 | 3.96 | 3.87 |
| Dichlorofluoromethane | 820 | 660 | 690 | 690 | 1560 | 750 | <500 | <5 | 16 | 51 | <1 | <1 | <10 | <5 | <5 | 9.3 | <5 | 17.7 | <5 | 11.9 |
| Ethylbenzene | 630 | 350 | 380 | 480 | 770 | 390 | 220 | 87 | 82 | 48 | 46.2 | 27.7 | 24.9 | 4.4 | 3.4 | 3.8 | 3.2 | 4 | 3.72 | 3.84 |
| Tetrachloroethene | 3290 | 2080 | 1850 | 2540 | 4520 | 3300 | 1720 | 595 | 440 | 401 | 343 | 314 | 283 | 210 | 207 | 155 | 130 | 138 | 105 | 120 |
| Toluene | 23300 | 12700 | 10100 | 12800 | 22300 | 18100 | 6870 | 6.4 | <5 | 2.6 | 1.8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 30300 | 12100 | 10200 | 16100 | 39500 | 21900 | 10600 | 2030 | 940 | 600 | 435 | 304 | 242 | 157 | 115 | 73.4 | 66.5 | 57.4 | 48.4 | 41.1 |
| Trichloroethene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 3.6 | 7.9 | 52.5 | 53 | 81.5 | 70.8 | 101 | 93.2 | 86.9 | 117 | 144 | 141 | 125 |
| Trichlorofluoromethane | 18600 | 8170 | 8690 | 13700 | 32800 | 15600 | 7010 | 1035 | 320 | 113 | 69.7 | 33.2 | 42.6 | 20.7 | 13.8 | <1 | 6.1 | 8 | 8.35 | 7.16 |
| 1,1,2-Trichlorotrifluoroethane | 14700 | 8210 | 7690 | 10200 | 18600 | 11400 | 5490 | 1300 | 1100 | 951 | 5000 | 251 | 350 | 155 | 271 | 170 | 128 | 208 | 142 | 123 |
| Vinyl chloride | <1 | <200 | <200 | <200 | <200 | <200 | <200 | 2.1 | 250 | 2.6 | 1.9 | <1 | <1 | 1.5 | <1 | <1 | 1.1 | 2.8 | 1.4 | 1.90 |
| Xylenes | 2580 | 1390 | 1450 | 1720 | 3100 | 2000 | 1000 | 210 | <5 | 176 | 167 | 93.7 | 75.8 | 11 | 1.1 | <2 | <2 | <2 | <3 | <2 |
| Total Calc VOC 15 | 99622.5 | 48580 | 43720 | 61780 | 128400 | 74360 | 35190 | 6014 | 3501.8 | 2667.5 | 6400 | 1280.7 | 1222.3 | 737.5 | 770.3 | 555.8 | 536.1 | 670.7 | 540.8 | 510.95 |
| Total chlorinated hydrocarbons | 38990 | 16750 | 14370 | 21640 | 48920 | 27770 | 14000 | 3373 | 1996.3 | 1272.4 | 1115 | 873.1 | 722 | 542.4 | 478.5 | 369.2 | 396.3 | 430.5 | 381.2 | 362.6 |
| Total BETX | 26510 | 4440 | 11930 | 15000 | 26170 | 18490 | 8090 | 303 | 82 | 226.6 | 215 | 121.4 | 100.7 | 15.4 | 4.5 | 3.8 | 3.2 | 4 | 3.7 | 3.8 |
| Total chlorofluorocarbons | 34120 | 17040 | 17070 | 24790 | 52960 | 27750 | 12500 | 2335 | 1436 | 1115 | 5070 | 284.2 | 392.6 | 175.7 | 284.6 | 179.3 | 132.1 | 233.7 | 150.4 | 142.1 |
| Static Water Level Elevation (Ft) | 745.23 | 745.02 | 744.45 | 743.9 | 743.47 | 744.39 | 744.59 | 745.51 | 744.92 | 744.14 | 743.01 | 744.51 | 744.42 | 744.35 | 744.96 | 745.36 | 744.24 | 744.38 | 744.62 | 744.85 |

NOTE:
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons: Non-detect values=zero.

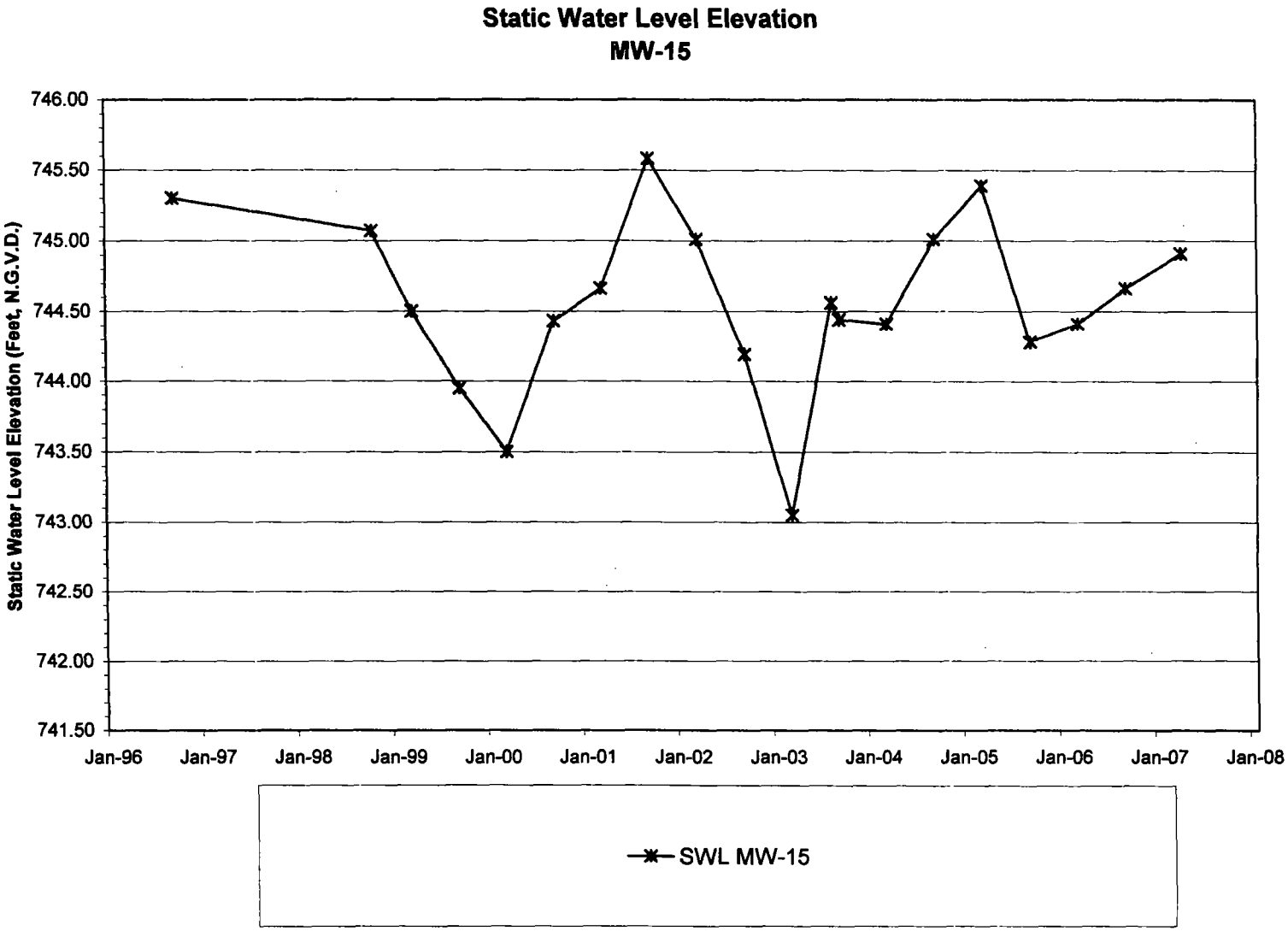
# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-15 (VOC)
Prepared by Heartland Environmental Associates, Inc.

# Accra Pac - Warner Baker Site
# 2626 Industrial Parkway
# Elkhart, Indiana




4/20/07

1092-0601-01 APR 2007 GW TREND GRAPHS.xls Chart MW-15 (SWL)
Prepared by Heartland Environmental Associates, Inc.

**Accra Pac - Warner Baker Site**
**2626 Industrial Parkway**
**Elkhart, Indiana**
**Groundwater Monitoring Data**

| MW-15 | 9/30/1996 | 10/1/1998 | 3/30/1999 | 9/30/1999 | 3/29/2000 | 9/25/2000 | 3/22/2001 | 9/19/2001 | 3/20/2002 | 9/24/2002 | 3/18/2003 | 8/12/2003 | 9/25/2003 | 3/18/2004 | 9/21/2004 | 3/24/2005 | 9/1/2005 | 3/15/2006 | 9/14/2006 | 4/2/2007 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | <1 | <200 | <200 | <200 | <200 | <200 | <200 | <200 | <5 | <10 | <1 | 4.2 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| 1,1-Dichloroethane | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 100 | <5 | <10 | <1 | <1 | 1.2 | 1 | 1 | <50 | <5 | <10 | <1 | 1.02 |
| 1,2-Dichloroethane | <1 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <5 | <10 | <1 | <1 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| 1,1-Dichloroethene | <1 | <200 | <200 | <200 | <200 | <200 | <200 | <200 | <5 | <10 | <1 | <1 | 50.6 | <1 | <1 | <50 | <5 | <10 | 50.3 | <1 |
| c-1,2-Dichloroethene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <5 | <10 | <1 | <1 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| Dichlorofluoromethane | 110 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <5 | <10 | 2.5 | <1 | <100 | <5 | <5 | <250 | <5 | <50 | <5 | <1 |
| Ethylbenzene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 158 | <5 | <10 | 1.7 | 2.7 | 1.4 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| Tetrachloroethene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 980 | <5 | <10 | 1 | <1 | 1.2 | <1 | <1 | <50 | <5 | <10 | 1.65 | 1.76 |
| Toluene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <5 | <10 | <1 | <1 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| 1,1,1-Trichloroethane | <1 | <100 | <100 | <100 | <100 | <100 | <100 | 730 | 35 | 15.6 | 11 | 5.8 | 8.8 | 9.2 | <1 | <50 | 7.2 | 13.8 | 4.93 | 6.37 |
| Trichloroethene | <1 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <5 | <10 | <1 | <1 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| Trichlorofluoromethane | <1 | <200 | <200 | <200 | <200 | <200 | <200 | 980 | <5 | <10 | <1 | <1 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| 1,1,2-Trichlorotrifluoroethane | 82000 | 61200 | 55500 | 55400 | 48900 | 30100 | 33700 | 30400 | 16000 | 15200 | 20700 | 13300 | 13700 | 15500 | 20300 | 26700 | 12500 | 35900 | 16200 | 21300 |
| Vinyl chloride | <1 | <200 | <200 | <200 | <200 | <200 | <200 | <200 | <2 | <10 | <1 | <1 | <1 | <1 | <1 | <50 | <5 | <10 | <1 | <1 |
| Xylenes | 140 | <200 | 200 | <200 | <200 | <200 | <200 | <200 | 18 | <10 | 9.4 | 13.2 | 6.6 | 3.7 | <1 | <100 | <10 | <20 | <3 | <2 |
| Total Calc VOC 15 | 82256 | 62350 | 56750 | 56550 | 50050 | 32450 | 34850 | 34198 | 16081.5 | 15280.6 | 20730.1 | 13330.9 | 13823.3 | 15521.4 | 20309 | 27175 | 12542.2 | 36003.6 | 16265.38 | 21315.15 |
| Total chlorinated hydrocarbons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1810 | 35 | 15.6 | 12 | 10 | 61.8 | 10.2 | 0 | 0 | 0 | 13.6 | 56.88 | 9.15 |
| Total BETX | 140 | 0 | 200 | 0 | 0 | 0 | 0 | 158 | 18 | 0 | 1.7 | 15.9 | 8 | 3.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total chlorofluorocarbons | 82110 | 61200 | 55500 | 55400 | 48900 | 30100 | 33700 | 31380 | 16000 | 15200 | 20702.5 | 13300 | 13700 | 15500 | 20300 | 26700 | 12500 | 35900 | 16200 | 21300 |
| Static Water Level Elevation (Ft) | 745.30 | 745.07 | 744.50 | 743.95 | 743.50 | 744.43 | 744.66 | 745.58 | 745.01 | 744.19 | 743.05 | 744.51 | 744.44 | 744.41 | 745.01 | 745.39 | 744.28 | 744.41 | 744.66 | 744.91 |

**NOTE:**
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons: Non-detect values=zero.