Atlanta Environmental Management, Inc.
*Environmental Consulting, Engineering, Hydrogeologic Services*

November 20, 2014

Mr. Charles D. Williams
Program Manager
Response and Remediation Program
Environmental Protection Division
Georgia Department of Natural Resources
2 Martin Luther King Jr. Dr SE, Suite 1054
East Atlanta, Georgia 30334

**Re: Fourth Semiannual Progress Report**
**Aramark Uniform & Career Apparel, LLC**
**670 & 690 DeKalb Avenue, HSI Site No. 10704**
**Atlanta, Fulton County, Georgia**
**Tax Parcels: 14-0020-001-019-6 and 14-0020-0000-202-4**
AEM Project No. 1133-1501-3

Dear Mr. Williams:

On behalf of Aramark Uniform and Career Apparel, LLC (Aramark), Atlanta Environmental Management, Inc. (AEM) is providing this Fourth Semiannual Progress Report regarding activities completed since May 2014 for the Aramark DeKalb Avenue Voluntary Remediation Program (VRP)/Hazardous Sites Inventory (HSI) Site No. 10704 (see Figures 1 and 2). The Voluntary Investigation and Remediation Plan (VIRP) was approved by the Georgia Environmental Protection Division (EPD) on November 20, 2012. A summary of the activities completed between May 20, 2014, and November 20, 2014, is provided below:

- Conducted well abandonment activities for select monitoring wells on 690 DeKalb Avenue per approval by EPD on May 30, 2014. The 690 DeKalb Avenue parcel was delisted from the HSI/VRP on May 30, 2014.
- Conducted a comprehensive groundwater sampling event of existing monitoring wells in July 2014 (see Attachment A).
- Installed markers on soil/vegetative cap at 670 DeKalb Avenue and conducted two quarterly inspections (June and October 2014) of the Soil Cap (see Attachment D).
- Revised the *Environmental Cap Inspection and Maintenance Plan* per EPD comments dated June 13, 2014 (see Attachment E).
- Surveyed the 670 DeKalb parcel and the environmental cap
- Participated in a status update meeting with Georgia EPD on August 6, 2014, to discuss data requirements for submittal of a Compliance Status Report (CSR) for 670 DeKalb Avenue.

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## 1.0 WELL ABANDONMENT—690 DeKalb Avenue

Per the approved Compliance Status Report (CSR) dated April 28, 2014, for the 690 DeKalb Avenue parcel, monitoring wells MW-109, -110, -111, -210, -211, and -402 were abandoned on June 26, 2014 (see Figure 1). As directed, monitoring well MW-403 was not closed. The wells were abandoned in accordance with procedures set forth in the CSR as well as EPA's Field Branches Quality System and Technical Procedures document SESDGUID-101-R1, dated January 22, 2013. An updated monitoring well construction table is provided as Table 1.

On June 26, 2014, monitoring wells MW-109, -110, -111, -210, -211, and -402 were properly abandoned by GeoLab, Inc., of Winder Georgia. Each well was constructed of 2-inch-diameter polyvinyl chloride (PVC) well screen and casing and ranged in depth between 20 and 25 feet. Per the CSR, the monitoring wells were abandoned in place.

The well abandonment procedures were as follows:

- **Well Gauging:** The total depth of each well was measured in order to confirm that the well remained open to the bottom (required for in-place closures). Hard well bottoms were noted at each location, indicating that the wells remained clear of debris.
- **Borehole Abandonment:** The grout slurry consisted of Portland Type I cement and approximately 10-percent (by volume) high-grade bentonite powder. The slurry was pumped (tremied) from the base of the bottom of the well to the surface with a 1-inch-diameter PVC tremie pipe. The grout was allowed to settle and was topped off as needed. Following the grouting activities, the upper 2 feet of the PVC well casing was removed (cut) along with the concrete pad and metal flush-mounted vault or metal stick-up cover.

  With the exception of monitoring well MW-402, the surface at each closed well location was capped with a concrete plug that was extended flush to the existing concrete paved surface. For monitoring well MW-402, the concrete plug was covered with top soil, as this location was not paved.
- **Waste Management:** Concrete fragments, metal well vaults, extracted PVC casing, and any garbage generated during the abandonment process were removed from the site for disposal.

Please note that monitoring wells MW-104, -105, -106, -107, and -108 were not abandoned as they are located beneath the soil stock pile on the southeastern portion of the site. This stock pile was placed on the site by the previous owner, Brisbane II, LLC, in anticipation of using the soil for development. These monitoring wells will be abandoned by Aramark if and when they are located. Aramark legal and real estate personnel are aware of the need to include the requirement for well abandonment as a condition of sale once the parcel is under contract. Upon completion of the future well abandonment effort, Aramark will submit a letter to the Georgia Environmental Protection Division detailing the abandonment.

## 2.0 JULY 2014 GROUNDWATER SAMPLING EVENT

The most recent comprehensive groundwater level measurement and sampling event was performed by AEM July 10 and July 14, 2014.

### 2.1 Depth-to-Groundwater Measurements

Depth-to-groundwater measurements were collected from 15 monitoring wells on January 14, 2014 (see Attachment A). The groundwater measurements were collected using a Solinst® (Model 101) electronic water level meter in accordance with U.S. EPA SESD Field Branch Quality System and Technical Procedure SESDPROC-105-R2 (*Groundwater Level and Well Depth Measurement*) dated January 29, 2013. AEM personnel collected water level measurements by recording the depth to groundwater below the marked (surveyed) top of the polyvinyl chloride (PVC) well casing for each well. Measurements were recorded in monitoring wells in the order of least to most contaminated.

Groundwater elevations were then calculated by subtracting the depth-to-water measurements from the measuring point surveyed elevations. Groundwater elevation data are summarized in Attachment A. The data summarized in Attachment A were used to prepare water level contour figures for the shallow residuum (see Figure 2), which indicate a groundwater flow direction toward the northeast.

### 2.2 Groundwater Sampling Event

AEM personnel, under the supervision of a Georgia licensed professional geologist (P.G.), conducted the latest groundwater monitoring activities at the Aramark DeKalb HSI/VRP parcels in July 2014. Groundwater samples were collected from monitoring wells MW-202, -203, -204, -206, -207P, -208P, -212, -213, -214, -306, -401, -403, -405, -409, and -409D. Quality control samples included two duplicate samples and trip blanks. The groundwater and quality control samples were collected for VOC analysis.

Groundwater samples were collected in accordance with U.S. EPA SESD Field Branch Quality System and Technical Procedure SESDPROC-301-R3 (*Groundwater Sampling*) dated March 6, 2013.

Groundwater purging and sampling activities were implemented using either an adjustable-speed peristaltic pump with dedicated Teflon-lined tubing or a Grundfos Redi-Flo 2 electric submersible pump with dedicated Teflon-lined tubing. Conventional purge and sample methods, utilizing slow-flow techniques to minimize sample volatility, were utilized. Purge water from the monitoring wells was containerized in 55-gallon steel drums for later profiling and disposal. Based on historic data, the drums were labeled as non-hazardous waste.

Temperature, pH, turbidity, and conductivity were measured at each sampled well during the purging effort and immediately prior to the collection of groundwater samples. These parameters were recorded on groundwater sampling field logs for each well (see Attachment A). The field logs record the sampling personnel, time and date of sample collection, well depth, purge volume, and purge method.

The groundwater samples were delivered to Xenco Laboratories for analysis of Environmental Protection Agency (EPA) Method 8260 list VOCs. The laboratory analytical data report for the groundwater samples collected in July 2014 is included in Attachment A.

Table 2 presents a summary of all VOCs detected in groundwater during the July 2014 sampling event. Tables in Attachment B present an updated historical summary of VOCs detected in groundwater at all active monitoring wells at the Aramark DeKalb HSI Site. The only VOCs that exceed the applicable Type 3/4 risk reduction standards (RRSs) were PCE, TCE, and vinyl chloride (see Figures 3 through 5). The Type 3/4 RRSs were approved by Georgia EPD in February 2005 (see Attachment C).

## 3.0 SOIL CAP O&M AND INSPECTIONS AND SURVEY

Engraved plates were installed on the concrete exteriors of the environmental cap system on June 5, 2014. The engraved plates state the following:

AREA SUBJECT TO ENVIRONMENTAL COVENANT & RESTRICTION

HSI# 10704

PRIOR TO DIGGING OR COMMENCING ANY OTHER LAND DISTURBANCE ACTIVITY

CALL AEM AT (404) 329-9006 OR

GEORGIA ENVIRONMENTAL PROTECTION DIVISION (404) 657-8600

Additionally, AEM conducted two quarterly inspections of the environmental cap on June 5, 2014, and October 8, 2014. Copies of the completed inspection forms are provided in Attachment D.

In response to Georgia EPD Comment No. 2c of the June 13, 2014, letter, AEM has revised the *Environmental Cap Inspection and Maintenance Plan* (Plan) to include photographs of the soil cap baseline conditions for comparison to future inspections. Additionally, AEM revised Figure 3 of the Plan to include the footprint of the environmental cap. A copy of the revised Plan is included in Attachment E.

## 4.0 ACTIVITIES TO BE CONDUCTED DURING THE NEXT PROGRESS REPORTING PERIOD

- Submittal of a Compliance Status and Compliance Certification Report (CSR) for the 670 DeKalb Avenue parcel. The CSR will also include a Draft Uniform Environmental Covenant to EPD for review and approval.
- Submittal of an Annual Environmental Cap report to EPD per the *Environmental Cap Inspection and Maintenance Plan*.
- Quarterly inspections of the environmental cap per the *Environmental Cap Inspection and Maintenance Plan*.

A monthly summary of Mr. Tony Gordon's hours expended as part of this semiannual progress report is provided in Attachment F.

If you need anything else or have any questions, please call us at (404) 329-9006.

Sincerely,

***Atlanta Environmental Management, Inc.***

Leona Miles, CHMM
Project Manager

Janet T. Hart
President

/krf

c: Doug Helmstetler (Aramark), via PDF e-mail copy
Rebecca Armbruster (The Wetlands Company), via PDF e-mail copy
Tony Gordon (AEM)

Attachments

# TABLES

**Table 1. Monitoring Well Construction Details**
**ARAMARK DeKalb VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| Well No. | Date Installed | Date Abandoned | Consultant | Aquifer Zone | TOC Elevation (ft AMSL) | Total Depth (TOC) | Well Bottom Elevation (ft AMSL) | Casing Diameter (in) | Screen Interval (ft) | Screen Elevation (ft AMSL) | Screen Length (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 8/1/1990 | Unknown | Depaul | Shallow Residuum | 1023.99 | 26 | 997.99 | 2.00 | 17-26 | 1047.99-997.99 | 9 |
| MW-2 | 8/2/1990 | Unknown | Depaul | Shallow Residuum | 1015.20 | 25 | 990.20 | 2.00 | 16-26 | 1000.2-990.2 | 10 |
| MW-3 | 8/2/1990 | Unknown | Depaul | Shallow Residuum | 1017.62 | 23 | 994.62 | 2.00 | 14-23 | 1003.62-994.62 | 9 |
| MW-4 | 8/2/1990 | Unknown | Depaul | Shallow Residuum | 1021.62 | 22 | 999.62 | 2.00 | 10-25 | 1009.62-999.62 | 10 |
| GP-8 | 5/22/1991 | Unknown | Depaul | Soil Boring | NA | 10 | NA | NA | NA | NA | NA |
| MW-5 | 5/20/1992 | Unknown | Depaul | Shallow Residuum | 1019.76 | 25 | 994.76 | 2.00 | 15-25 | 1004.76-994.76 | 10 |
| MW-6 | 5/20/1992 | Unknown | Depaul | Shallow Residuum | 1019.88 | 25 | 994.88 | 2.00 | 10-25 | 1001.88-994.88 | 10 |
| MW-7 | 5/21/1992 | Unknown | Depaul | Shallow Residuum | 1020.39 | 25 | 995.39 | 2.00 | 10-25 | 1005.39-995.39 | 10 |
| MW-8 | 5/21/1992 | Unknown | Depaul | Shallow Residuum | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | 5/21/1992 | Unknown | Depaul | Deep Residuum | NA | 88 | NA | 2.00 | 78-88 | NA | 10 |
| B-1 | 9/28/1999 | 9/28/1999 | QORE | Shallow Residuum | NA | 25-30 | NA | 2.00 | NA | NA | NA |
| B-2 | 9/28/1999 | 9/28/1999 | QORE | Shallow Residuum | NA | 25-30 | NA | 2.00 | NA | NA | NA |
| B-3 | 9/28/1999 | 9/28/1999 | QORE | Shallow Residuum | NA | 25-30 | NA | 2.00 | NA | NA | NA |
| BH-1 | 11/3/2000 | 11/3/2000 | Pickering | Shallow Residuum | NA | 28.00 | NA | NA | NA | NA | NA |
| BH-2 | 11/3/2000 | 11/3/2000 | Pickering | Shallow Residuum | NA | 28.00 | NA | NA | NA | NA | NA |
| BH-3 | 11/3/2000 | 11/3/2000 | Pickering | Shallow Residuum | NA | 28.00 | NA | NA | NA | NA | NA |
| DP-101 | 4/24/2001 | 4/24/2001 | Law | Shallow Residuum | NA | 28 | NA | 2.00 | NA | NA | NA |
| DP-102 | 4/25/2001 | 4/25/2001 | Law | Shallow Residuum | NA | 28 | NA | 2.00 | NA | NA | NA |
| DP-103 | 4/24/2001 | 4/24/2001 | Law | Shallow Residuum | NA | 28 | NA | 2.00 | NA | NA | NA |
| DP-104 | 4/25/2001 | 4/25/2001 | Law | Shallow Residuum | NA | 28 | NA | 2.00 | NA | NA | NA |
| DP-105 | 4/25/2001 | 4/25/2001 | Law | Shallow Residuum | NA | 26 | NA | 2.00 | NA | NA | NA |
| MW-101 | 4/24/2001 | 2005 | Law | Shallow Residuum | 1016.05 | 27.97 | 988.08 | 2.00 | 17.97-27.97 | 998.08 - 988.08 | 10 |
| MW-102 | 4/23/2001 | 2005 | Law | Shallow Residuum | 1011.86 | 32.94 | 978.92 | 2.00 | 22.94-32.94 | 988.92 - 978.92 | 10 |
| MW-103 | 4/24/2001 | 2005 | Law | Shallow Residuum | 1009.96 | 25.75 | 984.21 | 2.00 | 15.75-25.75 | 994.21 - 984.21 | 10 |
| MW-104 | 8/31/2001 | Under soil pile | Bock | Shallow Residuum | 1013.75 | 24.17 | 989.58 | 2.00 | 14.17-24.17 | 999.58 - 989.58 | 10 |
| MW-105 | 8/14/2001 | Under soil pile | Bock | Shallow Residuum | NA | 25.00 | NA | 2.00 | NA | NA | 15 |
| MW-106 | 8/15/2001 | Under soil pile | Bock | Shallow Residuum | 1014.14 | 25.17 | 988.97 | 2.00 | 10.17-25.17 | 1,003.97 - 988.97 | 15 |
| MW-107 | 8/14/2001 | Under soil pile | Bock | Shallow Residuum | 1014.19 | 25.17 | 989.02 | 2.00 | 7.17-22.17 | 1,004.02 - 989.02 | 15 |
| MW-108 | 8/15/2001 | Under soil pile | Bock | Shallow Residuum | 1013.59 | 25.17 | 988.42 | 2.00 | 15.17-25.17 | 998.42 - 988.42 | 10 |
| **MW-109** | **8/16/2001** | **6/26/2014** | **Bock** | **Shallow Residuum** | **1012.74** | **25.17** | **987.57** | **2.00** | **7.17-25.17** | **1,002.57 - 987.57** | **15** |
| **MW-110** | **8/16/2001** | **6/26/2014** | **Bock** | **Shallow Residuum** | **1013.11** | **22.17** | **990.94** | **2.00** | **15.17-22.17** | **997.94 - 990.94** | **7** |
| **MW-111** | **8/15/2001** | **6/26/2014** | **Bock** | **Shallow Residuum** | **1013.73** | **25.00** | **988.73** | **2.00** | **10-25** | **1,003.73 - 988.73** | **15** |
| MW-103D | 4/17/2003 | 2005 | AEM | Deep Residuum | 1009.25 | 75.00 | 934.25 | 2.00 | 65-75 | 944.25 - 934.25 | 10 |
| MW-201 | 4/14/2003 | 2005 | AEM | Shallow Residuum | 1015.76 | 23.82 | 991.94 | 2.00 | 13.82-23.82 | 1,001.94 - 991.94 | 10 |
| MW-202 | 4/14/2003 | Active | AEM | Shallow Residuum | 1012.69 | 22.00 | 990.69 | 2.00 | 12-22 | 1,000.69 - 990.69 | 10 |
| MW-203 | 4/15/2003 | Active | AEM | Shallow Residuum | 1013.47 | 25.00 | 988.47 | 2.00 | 15-25 | 998.47 - 988.47 | 10 |
| MW-204 | 5/2/2003 | Active | AEM | Shallow Residuum | 1015.01 | 24.50 | 990.51 | 2.00 | 14.50-24.50 | 1,000.51 - 990.51 | 10 |
| MW-205 | 3/31/2004 | 6/27/2013 | AEM | Shallow Residuum | 1009.90 | 17.00 | 992.90 | 2.00 | 7-17 | 1,002.90 - 992.90 | 10 |
| MW-206 | 7/23/2004 | Active | AEM | Shallow Residuum | 1008.45 | 14.50 | 993.95 | 2.00 | 4.50-14.50 | 1003.95-993.95 | 10 |
| MW-207 | 4/13/2006 | 7/7/2010 | AEM | Shallow Residuum | 1013.19 | 27.65 | 985.54 | 2.00 | 17.65-27.65 | 995.54-985.54 | 10 |
| MW-208 | 4/3/2006 | 7/7/2010 | AEM | Shallow Residuum | 1011.57 | 29.18 | 982.39 | 2.00 | 19.18-29.18 | 992.39-982.39 | 10 |
| MW-207P | 9/2/2005 | Active | MACTEC | Saturated Fill | 1012.40 | 10.00 | 1002.40 | 1.00 | 5.00-10.00 | 1007.40-1002.40 | 5 |
| MW-208P | 9/2/2005 | Active | MACTEC | Saturated Fill | 1012.86 | 13.12 | 999.74 | 1.00 | 3.26-13.26 | 1009.74 - 999.74 | 10 |
| MW-209P (PZ-2) | 9/2/2005 | 7/7/2010 | MACTEC | Saturated Fill | 1013.20 | 16.52 | 998.78 | 1.00 | 6.52-16.52 | 1008.78 - 998.78 | 10 |

**Table 1. Monitoring Well Construction Details**
**ARAMARK DeKalb VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| Well No. | Date Installed | Date Abandoned | Consultant | Aquifer Zone | TOC Elevation (ft AMSL) | Total Depth (TOC) | Well Bottom Elevation (ft AMSL) | Casing Diameter (in) | Screen Interval (ft) | Screen Elevation (ft AMSL) | Screen Length (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-210** | **5/22/2013** | **6/26/2014** | **AEM** | **Shallow Residuum** | **1016.28** | **23.00** | **993.28** | **2.00** | **13.00 -23.00** | **1003.28 - 993.28** | **10** |
| **MW-211** | **5/22/2013** | **6/26/2014** | **AEM** | **Shallow Residuum** | **1016.37** | **21.00** | **995.37** | **2.00** | **11.00 - 21.00** | **1005.37 - 995.37** | **10** |
| MW-212 | 5/22/2013 | Active | AEM | Shallow Residuum | 1014.06 | 17.50 | 996.56 | 2.00 | 7.50 - 17.50 | 1006.56 - 996.56 | 10 |
| MW-213 | 5/22/2013 | Active | AEM | Shallow Residuum | 1009.79 | 17.00 | 992.79 | 2.00 | 7.00 -17.00 | 1002.79 - 992.79 | 10 |
| MW-214 | 5/22/2013 | Active | AEM | Deep Residuum | 1009.40 | 74.50 | 934.90 | 2.00 | 64.50 - 74.50 | 944.90 - 934.90 | 10 |
| TW-34 | 12/8/2004 | Unknown | MACTEC | Shallow Residuum | NA | 20.00 | NA | 2.00 | 5-20 | NA | 15 |
| TW-35 | 12/8/2004 | Unknown | MACTEC | Shallow Residuum | NA | 15.00 | NA | 2.00 | 10-15 | NA | 5 |
| TW-36 | 12/7/2004 | Unknown | MACTEC | Shallow Residuum | NA | 11.00 | NA | 2.00 | 2-12 | NA | 10 |
| MW-301 | 4/4/2006 | 7/7/2010 | AEM | Shallow Residuum | 1012.60 | 27.98 | 984.62 | 2.00 | 17.98-27.98 | 994.62 - 984.62 | 10 |
| MW-302 | 4/4/2006 | 7/7/2010 | AEM | Shallow Residuum | 1011.91 | 29.97 | 981.94 | 2.00 | 19.97-29.97 | 991.94 - 981.94 | 10 |
| MW-303 | 4/4/2006 | 7/7/2010 | AEM | Shallow Residuum | 1009.39 | 28.98 | 980.41 | 2.00 | 18.98-28.98 | 990.41 - 980.41 | 10 |
| MW-306 | 4/3/2006 | Active | AEM | Shallow Residuum | 1008.50 | 30.67 | 977.83 | 2.00 | 20.67-30.67 | 987.83 - 977.83 | 10 |
| MW-401 | 4/13/2006 | Active | MACTEC | Shallow Residuum | 1013.69 | 15.95 | 997.74 | 2.00 | 5.95-15.95 | 1007.74 - 997.74 | 10 |
| **MW-402** | **4/13/2006** | **6/26/2014** | **MACTEC** | **Shallow Residuum** | **1016.21** | **19.47** | **996.74** | **2.00** | **9.47-19.47** | **1006.74 - 996.74** | **10** |
| MW-403 | 4/13/2006 | Active | MACTEC | Shallow Residuum | 1015.22 | 22.61 | 992.61 | 2.00 | 12.61-22.61 | 1002.61 - 992.61 | 10 |
| MW-404 | 4/14/2006 | 7/7/2010 | MACTEC | Shallow Residuum | 1009.13 | 13.93 | 995.20 | 2.00 | 3.93-13.93 | 1005.20 - 995.20 | 10 |
| MW-405 | 4/14/2006 | Active | MACTEC | Shallow Residuum | 1015.84 | 18.60 | 997.24 | 2.00 | 8.60-18.60 | 1007.24 - 997.24 | 10 |
| MW-406 | 4/18/2006 | Active | MACTEC | Shallow Residuum | 1015.00 | 22.26 | 992.74 | 2.00 | 12.26-22.26 | 1002.74 - 992.74 | 10 |
| MW-407 | 4/18/2007 | 7/7/2010 | MACTEC | Shallow Residuum | 1012.89 | 19.48 | 993.41 | 2.00 | 9.48-19.48 | 1003.41 - 993.41 | 10 |
| MW-408 | 4/18/2007 | 7/7/2010 | MACTEC | Shallow Residuum | 1009.91 | 16.00 | 993.91 | 2.00 | 6-16 | 1003.91 - 993.91 | 10 |
| MW-409 | 4/19/2007 | Active | MACTEC | Shallow Residuum | 1016.36 | 20.29 | 996.07 | 2.00 | 10.29-20.29 | 1006.07 - 996.07 | 10 |
| MW-409D | 4/19/2007 | Active | MACTEC | Shallow Residuum | 1016.07 | 30.70 | 985.37 | 2.00 | 28.70-30.70 | 987.37 - 985.37 | 2 |
| PZ-1 (TPZ-1) | 4/8/2003 | 2006 | AEM | Shallow Residuum | 1009.31 | 20.00 | 989.31 | 1.00 | 4.50-19.50 | 1,004.31 - 989.31 | 15 |
| TW-1[1] | 9/7/2005 | 2005 | AEM | Shallow Residuum | NA | 25.5 | NA | 2.00 | 15.20-25.20 | NA | 10 |
| TW-2[1] | 9/7/2005 | 2005 | AEM | Shallow Residuum | NA | 25.2 | NA | 2.00 | 15.20-25.20 | NA | 10 |
| TW-3[1] | 9/7/2005 | 2005 | AEM | Shallow Residuum | NA | 25.2 | NA | 2.00 | 15.20-25.20 | NA | 10 |
| TMW-1 (AEM-GP-4) | 8/5/2008 | 7/7/2010 | AEM | Shallow Residuum | NA | 18.00 | NA | 1.00 | 8.00-18.00 | NA | 10 |
| TMW-2 (AEM-GP-10) | 8/5/2008 | 7/7/2010 | AEM | Shallow Residuum | NA | 19.55 | NA | 1.00 | 9.55-19.55 | NA | 10 |
| TMW-3 (AEM-GP-14) | 8/5/2008 | 7/7/2010 | AEM | Shallow Residuum | NA | 19.50 | NA | 1.00 | 9.50-19.50 | NA | 10 |
| ED-1 | 12/7/2005 | 12/20/2005 | AEM | Shallow Residuum | 1028.59 | 32.5 | 996.09 | 1.00 | 22.5-32.5 | 1006.09-996.09 | 10 |
| ED-2 | 12/7/2005 | 12/20/2005 | AEM | Shallow Residuum | 1028.28 | 29.35 | 998.93 | 1.00 | 19.35-29.35 | 1008.93-998.93 | 10 |
| ED-3 | 12/7/2005 | 12/20/2005 | AEM | Shallow Residuum | 1028.89 | 32.7 | 996.19 | 1.00 | 22.70-32.70 | 1006.19-996.19 | 10 |
| ED-4 | 12/7/2005 | 12/20/2005 | AEM | Shallow Residuum | 1028.81 | 34.3 | 994.51 | 1.00 | 24.30-34.30 | 1004.51-994.51 | 10 |
| ED-5 | 12/7/2005 | 12/20/2005 | AEM | Shallow Residuum | 1031.5 | 42.1 | 989.40 | 1.00 | 32.10-42.10 | 999.40-989.40 | 10 |

NA- Not Available
AMSL - Above Mean Sea Level
TOC - Top Of Casing
ft - feet
in - inches

[1] Not surveyed ( In- situ chemical oxydation pilot test temporary wells)
**Bold**- Changes made since May 20, 2014 Third Semiannual Progress Report

**Table 2. Summary of Constiuents of Concern Detected in Groundwater, July 2014.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-202 07/10/14 | MW-203 07/11/14 | MW-204 07/11/14 | MW-206 07/11/14 | MW-207P 07/11/14 | MW-208P 07/10/14 | MW-212 07/11/14 | MW-213 07/11/14 | MW-214 07/10/14 | MW-306 07/11/14 | MW-401 07/10/14 | MW-403 07/11/14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Chlorinated VOCs** | | Selected RRS | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | **7.6** | <5 | **15** | <5 | **88** | **86** | <5 | **31** | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 5,260 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | **15** | **41** | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 548 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | 987 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | 1,020 | <5 | <5 | <5 | <5 | <5 | <5 | **180** | **800** | <5 | <5 | <5 | **81** |
| trans-1,2-Dichloroethene | µg/L | 2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **11** | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | **15** | **9.6** | <2 | <2 | <2 | **140** |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | |
| Benzene | µg/L | 8.8 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 2,300 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 5,200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | 17,400 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | 1,010 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | |
| 2-Butanone (MEK) | µg/L | 2,000 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 92,000 | <50 | <50 | <50 | <50 | <50 | <50 | **64** | <50 | <50 | <50 | <50 | <50 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene Chloride | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |

Notes:
VOCs-volatile organic compounds
µg/L- micrograms per liter
NA-not analyzed
Exceeds Selected RRS (See Table 2 of CSR)

**Table 2. Summary of Constiuents of Concern Detected in Groundwater, July 2014.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-405 07/10/14 | MW-409 07/11/14 | MW-409D 07/10/14 |
|---|---|---|---|---|---|
| **Chlorinated VOCs** | | Selected RRS | | | |
| Tetrachloroethene | µg/L | 5 | <5 | **12** | <5 |
| 1,1,1-Trichloroethane | µg/L | 5,260 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 548 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 |
| Chloroethane | µg/L | 987 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | 1,020 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 2,040 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | |
| Benzene | µg/L | 8.8 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 2,300 | <5 | <5 | <5 |
| Toluene | µg/L | 5,200 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | <5 |
| Cyclohexane | µg/L | 17,400 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA |
| Isopropylbenzene | µg/L | 1,010 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | |
| 2-Butanone (MEK) | µg/L | 2,000 | <50 | <50 | <50 |
| Acetone | µg/L | 92,000 | <50 | <50 | <50 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | <5 |
| Methylene Chloride | µg/L | 5 | <5 | <5 | <5 |

Notes:
VOCs-volatile organic compounds
µg/L- micrograms per liter
NA-not analyzed
Exceeds Selected RRS (See Table 2 of CSR)

# FIGURES

# Legend

- ⊠ - AEM Abandoned Monitoring Well
- ✦ - MACTEC Monitoring Well
- ⊠ - MACTEC Abandoned Monitoring Well
- ✢ - Law Monitoring Well
- ⊠ - Law Abandoned Monitoring Well
- — - Approximate Property Boundary of Aramark DeKalb HSI Site

3 STORY MASONRY BUILDING

1 STORY METAL & MASONRY BUILDING

MW-402 ⊠

MW-403 ✦

MW-110 ⊠

MW-109 ⊠

MW-111 ⊠

Soil Pile Extent

MW-211 ⊠

**690 DeKalb Avenue Parcel**
**Former Dynamic Metals Site**

MW-210 ⊠

MW-107 ✢

MW-108 ✢

MW-106 ✢

MW-105 ✢

MW-104 ✢

Gunby Street

**670 DeKalb Avenue Parcel**
**Former Aratex Site**

RAMP

RAMP

RAMP

**DeKalb Avenue**

Graphic Scale

50 0 25 50 100

1 inch = 50 ft.

N


AEM

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Environmental Consulting, Engineering, Hydrogeologic Services

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Phone: 404.329.9006 • Fax: 404.329.2057


| | | | |
|---|---|---|---|
| PROJECT #: | 1133-1401-4 | DRAWN BY: | TL |
| SCALE: | 1" = 50' | DATE: | November 5, 2014 |

690 DeKalb Avenue
Monitoring Well Abandonment

Well Abandonment Locations

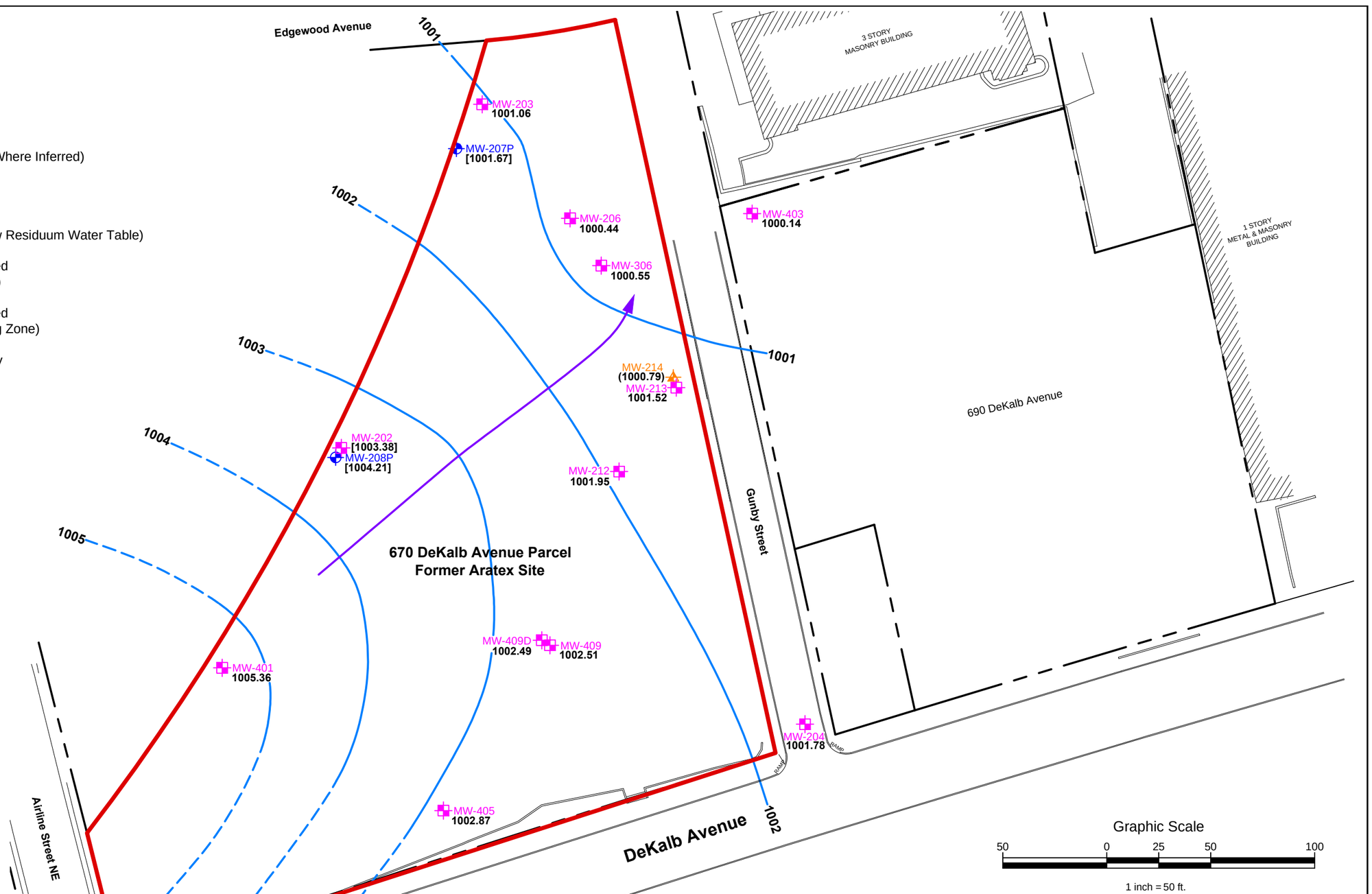
Figure 1

G:\DWG\1133-1501 Aramark DeKalb\3\Abandoned Wells 2014-07-17

# Legend

- Shallow Piezometer
- Water Table Monitoring Well
- Deep Monitoring Well
- Water Table Contour (Dashed Where Inferred)
- Flow Direction
- **1000.14** - Water Level Elevation (Screened Across or Just Below Residuum Water Table)
- **[1004.21]** - Water Level Elevation - Not Used (Shallow Saturated Fill Material)
- **(1000.79)** - Water Level Elevation - Not Used (Deep Residuum Water-Bearing Zone)
- Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:
Only groundwater elevations from wells screened across or just below the water table were used to generate potentiometric contours.





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| | | | |
|---|---|---|---|
| PROJECT #: | 1133-1501-3 | DRAWN BY: | TL |
| SCALE: | 1" = 50' | DATE: | November 19, 2014 |

Former Aratex Services, Inc.
670 DeKalb Avenue
Atlanta, Georgia

Water Table Contours
July 17, 2014
(Wells Screened Across Water Table)

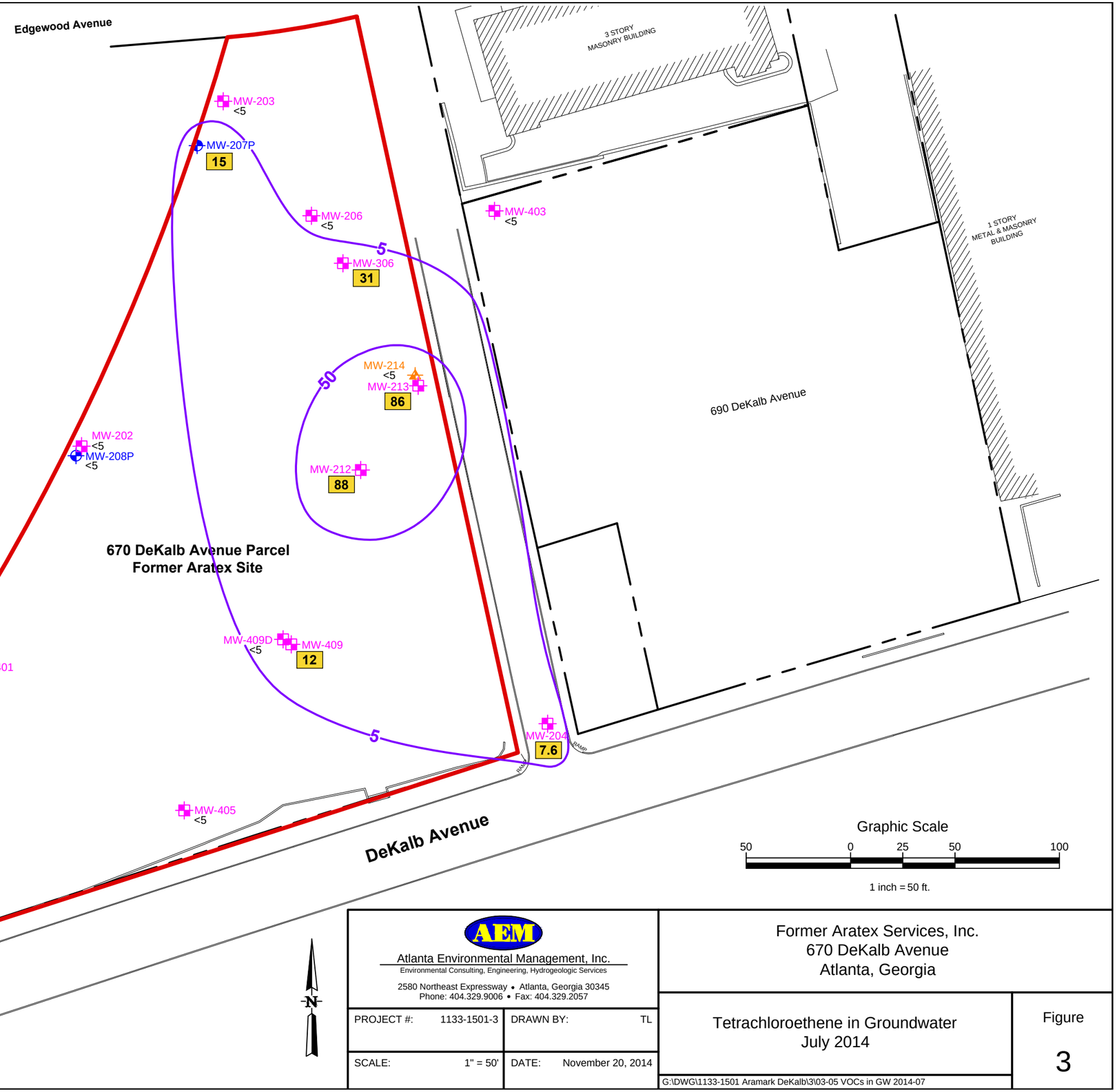
Figure
2

G:\DWG\1133-1501 Aramark DeKalb\3\02 Water Table 2014-07-17

# Legend

- Shallow Piezometer
- Water Table Monitoring Well
- Deep Monitoring Well
- RRS - Risk Reduction Standard
- µg/L - Micrograms per Liter
- 86 - Tetrachloroethene Concentration Exceeding Type 3/4 RRS, µg/L
- NS - Not Sampled
- Tetrachloroethene Isoconcentration Contour, µg/L
- Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:
1. Type 3/4 RRS for Tetrachloroethene = >5 µg/L
2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.





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| | | | |
|---|---|---|---|
| PROJECT #: | 1133-1501-3 | DRAWN BY: | TL |
| SCALE: | 1" = 50' | DATE: | November 20, 2014 |

Former Aratex Services, Inc.
670 DeKalb Avenue
Atlanta, Georgia

Tetrachloroethene in Groundwater
July 2014

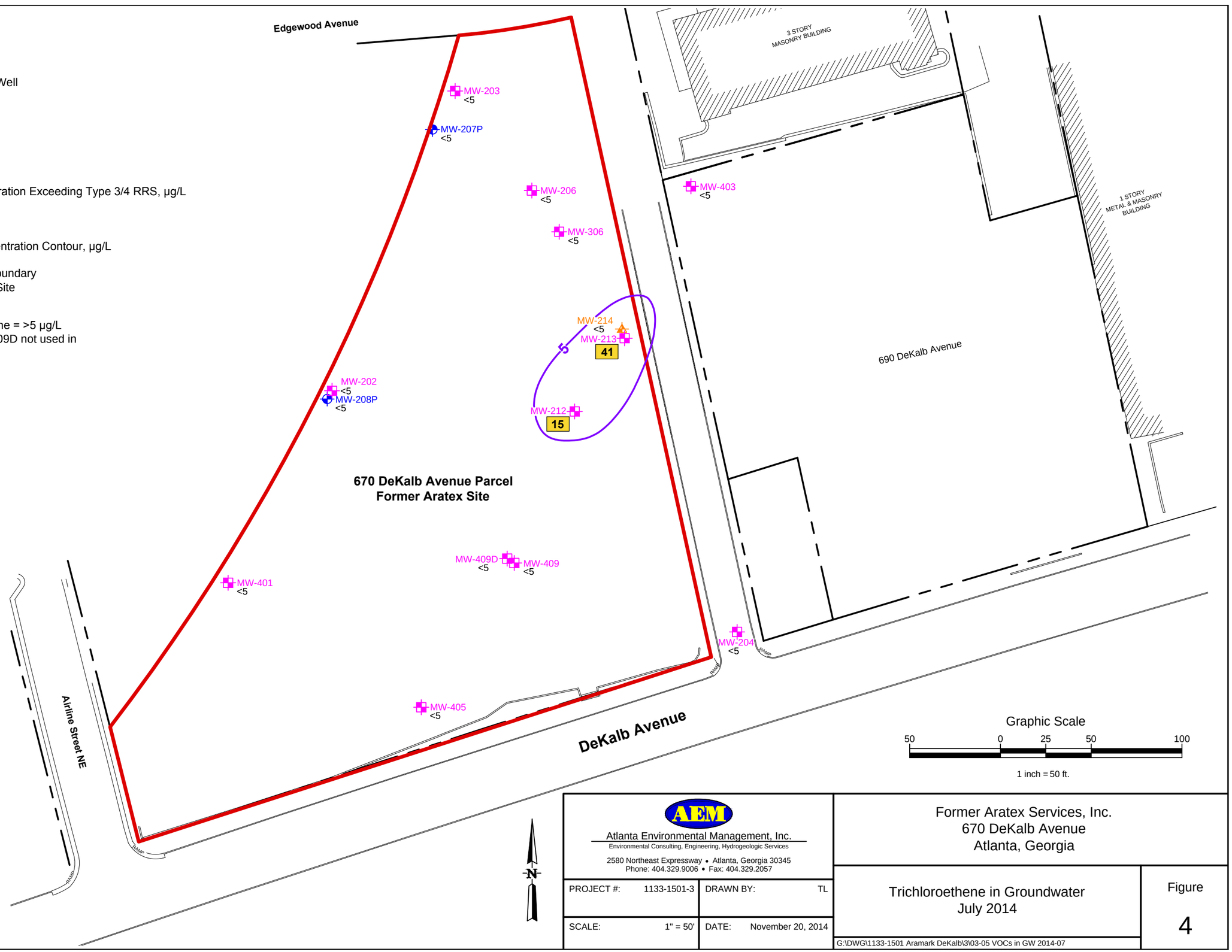
Figure 3

G:\DWG\1133-1501 Aramark DeKalb\3\03-05 VOCs in GW 2014-07

# Legend

- Shallow Piezometer
- Water Table Monitoring Well
- Deep Monitoring Well
- RRS - Risk Reduction Standard
- µg/L - Micrograms per Liter
- 41 - Trichloroethene Concentration Exceeding Type 3/4 RRS, µg/L
- NS - Not Sampled
- Trichloroethene Isoconcentration Contour, µg/L
- Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:
1. Type 3/4 RRS for Trichloroethene = >5 µg/L
2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.





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| | | | |
|---|---|---|---|
| PROJECT #: | 1133-1501-3 | DRAWN BY: | TL |
| SCALE: | 1" = 50' | DATE: | November 20, 2014 |

Former Aratex Services, Inc.
670 DeKalb Avenue
Atlanta, Georgia

Trichloroethene in Groundwater
July 2014

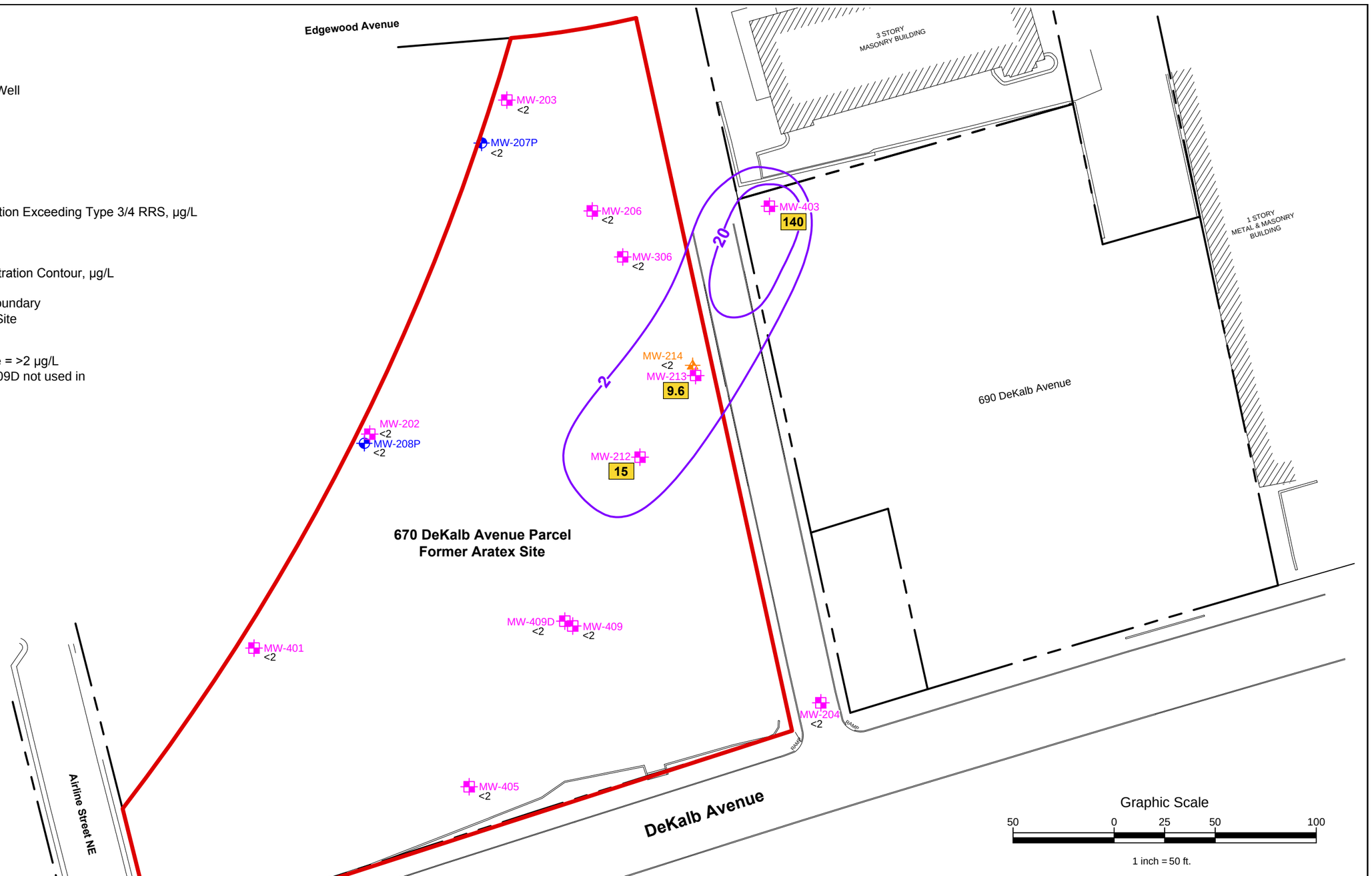
Figure 4

G:\DWG\1133-1501 Aramark DeKalb\3\03-05 VOCs in GW 2014-07

# Legend

- Shallow Piezometer
- Water Table Monitoring Well
- Deep Monitoring Well
- RRS - Risk Reduction Standard
- µg/L - Micrograms per Liter
- 15 - Vinyl Chloride Concentration Exceeding Type 3/4 RRS, µg/L
- NS - Not Sampled
- Vinyl Chloride Isoconcentration Contour, µg/L
- Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:
1. Type 3/4 RRS for Vinyl Chloride = >2 µg/L
2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.





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| | |
|---|---|
| PROJECT #: 1133-1501-3 | DRAWN BY: TL |
| SCALE: 1" = 50' | DATE: November 20, 2014 |

Former Aratex Services, Inc.
670 DeKalb Avenue
Atlanta, Georgia

Vinyl Chloride in Groundwater
July 2014

Figure 5

G:\DWG\1133-1501 Aramark DeKalb\3\03-05 VOCs in GW 2014-07

# ATTACHMENT A

# July 2014 Groundwater Sampling Data

**Table A-1. Groundwater Elevation Data**
**2001-2013**
**ARAMARK Dekalb Site, Atlanta, GA**

| Observation Well: | **MW-101** | | **MW-102** | | **MW-103** | | **MW-103D** | | **MW-104** | | **MW-106** | | **MW-107** | | **MW-108** | | **MW-109** | | **MW-110** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date: | 4/24/2001 | | 4/23/2001 | | 4/24/2001 | | 4/17/2003 | | 8/13/2001 | | 8/15/20011 | | 8/14/2001 | | 8/15/2001 | | 8/16/2001 | | 8/16/2001 | |
| Monitored Zone: | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Deep Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | |
| Elevation, ft. AMSL[1,2,3]: Access Port/Well Casing. | 1,016.046 | | 1,011.856 | | 1,009.956 | | 1,009.251 | | 1,013.746 | | 1,014.141 | | 1,014.191 | | 1,013.591 | | 1,012.741 | | 1,013.106 | |
| Elevation, ft. AMSL[1]: Well Screen Interval | 989.08-988.08 | | 988.92-978.92 | | 994.21-984.21 | | 944.25-934.25 | | 999.25-989.25 | | 1003.97-988.97 | | 1004.02-989.02 | | 998.42-988.42 | | 1001.94-991.94 | | 997.94-990.94 | |
| Date | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL |
| 08/17/01 | 13.96 | **1,002.09** | 10.47 | **1,001.39** | 8.72 | **1,001.24** | NI | NM | 13.67 | **1,000.08** | 13.48 | **1,000.66** | 12.14 | **1,002.05** | 12.29 | **1,001.30** | 11.38 | **1,001.36** | 11.62 | **1,001.49** |
| 03/04/03 | 13.65 | **1,002.40** | 10.31 | **1,001.55** | 8.42 | **1,001.54** | NI | NM | 11.82 | **1,001.93** | 11.24 | **1,002.90** | 11.28 | **1,002.91** | 11.55 | **1,002.04** | 10.76 | **1,001.98** | 10.68 | **1,002.43** |
| 04/22/03 | 13.15 | **1,002.90** | 9.84 | **1,002.02** | 7.84 | **1,002.12** | 7.50 | **1,001.75** | 11.46 | **1,002.29** | 10.81 | **1,003.33** | 10.87 | **1,003.32** | 11.18 | **1,002.41** | 10.28 | **1,002.46** | 10.09 | **1,003.02** |
| 05/02/03 | 13.19 | **1,002.86** | 9.95 | **1,001.91** | 7.87 | **1,002.09** | 7.60 | **1,001.65** | 11.36 | **1,002.39** | 10.64 | **1,003.50** | 10.62 | **1,003.57** | 11.06 | **1,002.53** | 10.48 | **1,002.26** | 10.19 | **1,002.92** |
| 05/07/03 | 9.86 | **1,006.19** | 8.86 | **1,003.00** | 6.59 | **1,003.37** | 6.30 | **1,002.95** | 10.89 | **1,002.86** | 10.45 | **1,003.69** | 10.26 | **1,003.93** | 10.73 | **1,002.86** | 9.61 | **1,003.13** | 9.13 | **1,003.98** |
| 05/16/03 | 8.22 | **1,007.83** | 8.66 | **1,003.20** | 6.42 | **1,003.54** | 6.42 | **1,002.83** | 10.66 | **1,003.09** | 10.20 | **1,003.94** | 10.01 | **1,004.18** | 10.51 | **1,003.08** | 9.50 | **1,003.24** | 8.75 | **1,004.36** |
| 12/17/03 | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 04/06/04 | 14.16 | **1,001.89** | 10.65 | **1,001.21** | 8.67 | **1,001.29** | 8.43 | **1,000.82** | 12.18 | **1,001.57** | 11.54 | **1,002.60** | 11.66 | **1,002.53** | 11.89 | **1,001.70** | 11.28 | **1,001.46** | 11.15 | **1,001.96** |
| 07/27/04 | 12.34 | **1,003.71** | 9.92 | **1,001.94** | 7.85 | **1,002.11** | 9.01 | **1,000.24** | 12.20 | **1,001.55** | NM | NM | 12.19 | **1,002.00** | 11.88 | **1,001.71** | NM | **NM** | 11.20 | **1,001.91** |
| 07/12/05 | 7.20 | **1,008.85** | 7.21 | **1,004.65** | NM | NM | 4.91 | **1,004.34** | 9.85 | **1,003.90** | NM | NM | 9.60 | **1,004.59** | 9.81 | **1,003.78** | 8.70 | **1,004.04** | 8.51 | **1,004.60** |
| 09/07/05 | 12.62 | **1,003.43** | 9.57 | **1,002.29** | NM | NM | 7.12 | **1,002.13** | 10.66 | **1,003.09** | NM | NM | 10.65 | **1,003.54** | 10.66 | **1,002.93** | 10.40 | **1,002.34** | 10.10 | **1,003.01** |
| 09/19/05 | 13.45 | **1,002.60** | 9.81 | **1,002.05** | NM | NM | 7.67 | **1,001.58** | 11.29 | **1,002.46** | NM | NM | 11.08 | **1,003.11** | 10.88 | **1,002.71** | 10.76 | **1,001.98** | 10.47 | **1,002.64** |
| 10/11/05 | 12.54 | **1,003.51** | 9.54 | **1,002.32** | NM | NM | 7.02 | **1,002.23** | 11.32 | **1,002.43** | NM | NM | NM | NM | NM | NM | 10.56 | **1,002.18** | NM | NM |
| 12/13/05 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 12/20/05 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | 11.52 | **1,002.23** | NM | NM | 11.56 | **1,002.63** | 11.50 | **1,002.09** | 10.74 | **1,002.00** | 10.96 | **1,002.15** |
| 01/25/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | 11.47 | **1,002.28** | 11.21 | **1,002.93** | 11.26 | **1,002.93** | 11.20 | **1,002.39** | 10.05 | **1,002.69** | 10.47 | **1,002.64** |
| 04/10/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | 11.65 | **1,002.10** | 10.98 | **1,003.16** | 11.09 | **1,003.10** | 11.40 | **1,002.19** | 11.09 | **1,001.65** | 10.60 | **1,002.51** |
| 05/15/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | 11.86 | **1,001.89** | 11.24 | **1,002.90** | 11.34 | **1,002.85** | 11.55 | **1,002.04** | 11.11 | **1,001.63** | 10.83 | **1,002.28** |
| 08/14/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 12.01 | **1,000.73** | 12.00 | **1,001.11** |
| 11/07/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 12.33 | **1,000.41** | NM | NM |
| 02/07/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 11.70 | **1,001.04** | 11.72 | **1,001.39** |
| 05/30/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 12.75 | **999.99** | 12.61 | **1,000.50** |
| 09/17/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 13.72 | **999.02** | 13.79 | **999.32** |
| 12/04/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 14.51 | **998.23** | 14.57 | **998.54** |
| 03/05/08 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 12.82 | **999.92** | 13.40 | **999.71** |
| 06/04/08 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 12.76 | **999.98** | 12.78 | **1,000.33** |
| 09/09/08 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 13.64 | **999.10** | 13.86 | **999.25** |
| 08/07/09 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 13.80 | **998.94** | NM | NM |
| 11/30/09 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 10.52 | **1,002.22** | 10.56 | **1,002.55** |
| 02/18/11 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 11.50 | **1,001.24** | 11.58 | **1,001.53** |
| 05/31/11 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 11.16 | **1,001.58** | 10.97 | **1,002.14** |
| 10/08/12 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 13.02 | **999.72** | 12.96 | **1,000.15** |
| 06/03/13 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 07/17/13 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 10.26 | **1,002.48** | 10.09 | **1,003.02** |
| 01/06/14 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | 10.00 | **1,002.74** | 10.09 | **1,003.02** |
| 07/14/14 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | ABN | ABN | ABN | ABN |

Notes: See last page of table.

**Table A-1. Groundwater Elevation Data**
**2001-2013**
**ARAMARK Dekalb Site, Atlanta, GA**

| Observation Well: | **MW-111** | | **MW-201** | | **MW-202** | | **MW-203** | | **MW-204** | | **MW-205** | | **MW-206** | | **MW-207** | | **MW-207P** | | **MW-208** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date: | 8/15/2001 | | 4/14/2003 | | 4/14/2003 | | 4/15/2003 | | 5/2/2003 | | 3/31/2004 | | 7/23/2004 | | 4/3/2006 | | NA | | 4/3/2006 | |
| Monitored Zone: | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | |
| Elevation, ft. AMSL[1,2,3]: | | | | | | | | | | | | | | | | | | | | |
| Access Port/Well Casing. | 1,013.726 | | 1,015.766 | | 1,012.686 | | 1,009.221 | | 1,015.101 | | 1,009.911 | | 1,008.446 | | 1,013.191 | | 1,009.400 | | 1,011.566 | |
| Elevation, ft. AMSL[1]: | | | | | | New TOC[4] | 1013.47 | | | | | | | | | New TOC[4] | 1012.40 | | | |
| Well Screen Interval | 1003.73-988.73 | | 1001.94-991.94 | | 1000.69-990.69 | | 994.22-984.22 | | 1005.51-990.51 | | 1002.90-992.90 | | 1003.95-993.95 | | 995.54-985.54 | | 999.40-989.40 | | 992.39-982.39 | |
| Date | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL |
| 08/17/01 | NM | NM | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 03/04/03 | NM | NM | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/22/03 | NM | NM | 12.56 | **1,003.21** | 7.66 | **1,005.03** | 6.47 | **1,002.75** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/02/03 | NM | NM | 12.36 | **1,003.41** | 8.08 | **1,004.61** | 7.79 | **1,001.43** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/07/03 | NM | NM | 11.58 | **1,004.19** | 6.09 | **1,006.60** | 4.28 | **1,004.94** | 11.77 | **1,003.33** | NI | NM | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/16/03 | NM | NM | 11.29 | **1,004.48** | 6.01 | **1,006.68** | 4.27 | **1,004.95** | 11.55 | **1,003.55** | NI | NM | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/17/03 | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NI | NM | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/06/04 | NM | NM | 13.35 | **1,002.42** | 9.09 | **1,003.60** | 8.02 | **1,001.20** | 13.49 | **1,001.61** | 9.21 | **1,000.70** | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/27/04 | NM | NM | 12.80 | **1,002.97** | 7.61 | **1,005.08** | 5.80 | **1,003.42** | 13.32 | **1,001.78** | 7.07 | **1,002.84** | 13.49 | **994.96** | NI | NI | NI | NI | NI | NI |
| 07/12/05 | NM | NM | 8.48 | **1,007.29** | 4.22 | **1,008.47** | 3.41 | **1,005.81** | 10.25 | **1,004.85** | 4.46 | **1,005.45** | NM | NM | NI | NI | NI | NI | NI | NI |
| 09/07/05 | NM | NM | 11.46 | **1,004.31** | 7.53 | **1,005.16** | 5.62 | **1,003.60** | 12.11 | **1,002.99** | 8.93 | **1,000.98** | 3.85 | **1,004.60** | NI | NI | NI | NI | NI | NI |
| 09/19/05 | NM | NM | 12.02 | **1,003.75** | 8.19 | **1,004.50** | 6.45 | **1,002.77** | 12.50 | **1,002.60** | 9.50 | **1,000.41** | 4.32 | **1,004.13** | NI | NI | NI | NI | NI | NI |
| 10/11/05 | NM | NM | 11.52 | **1,004.25** | NM | NM | NM | NM | 12.36 | **1,002.74** | NM | NM | NM | NM | NI | NI | NI | NI | NI | NI |
| 12/13/05 | NM | NM | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NI | NI | NI | NI | NI | NI |
| 12/20/05 | NM | NM | ABN | ABN | 7.57 | **1,005.12** | 6.98 | **1,002.24** | 12.89 | **1,002.21** | 9.05 | **1,000.86** | NM | NM | NI | NI | NI | NI | NI | NI |
| 01/25/06 | NM | NM | ABN | ABN | 6.33 | **1,006.36** | 4.83 | **1,004.39** | 12.39 | **1,002.71** | 6.49 | **1,003.42** | 4.07 | **1,004.38** | NI | NI | NI | NI | NI | NI |
| 04/10/06 | 10.57 | **1,002.54** | ABN | ABN | 8.48 | **1,004.21** | 7.88 | **1,001.34** | 12.95 | **1,002.15** | 11.59 | **998.32** | 5.44 | **1,003.01** | 11.50 | **1,001.69** | NI | NI | 9.30 | **1,002.27** |
| 05/15/06 | 11.15 | **1,001.96** | ABN | ABN | 8.45 | **1,004.24** | 7.58 | **1,001.64** | 13.17 | **1,001.93** | 11.21 | **998.70** | 7.07 | **1,001.38** | 11.55 | **1,001.64** | 7.30 | **1,002.10** | 9.31 | **1,002.26** |
| 08/14/06 | NM | NM | ABN | ABN | 9.22 | **1,003.47** | NM | NM | 14.12 | **1,000.98** | 11.30 | **998.61** | 6.94 | **1,001.51** | 12.40 | **1,000.79** | NM | NM | 10.19 | **1,001.38** |
| 11/07/06 | NM | NM | ABN | ABN | 9.55 | **1,003.14** | 8.28 | **1,000.94** | 14.29 | **1,000.81** | 11.72 | **998.19** | 7.38 | **1,001.07** | 12.64 | **1,000.55** | 7.99 | **1,001.41** | 10.41 | **1,001.16** |
| 02/07/07 | NM | NM | ABN | ABN | 9.08 | **1,003.61** | 7.64 | **1,001.58** | 13.69 | **1,001.41** | 11.11 | **998.80** | 7.60 | **1,000.85** | 12.00 | **1,001.19** | 8.21 | **1,001.19** | 9.68 | **1,001.89** |
| 05/30/07 | NM | NM | ABN | ABN | 10.53 | **1,002.16** | 9.25 | **999.97** | 14.75 | **1,000.35** | 13.06 | **996.85** | 8.33 | **1,000.12** | 13.15 | **1,000.04** | 9.13 | **1,000.27** | 11.20 | **1,000.37** |
| 09/17/07 | NM | NM | ABN | ABN | 10.56 | **1,002.13** | 9.46 | **999.76** | 15.91 | **999.19** | 11.89 | **998.02** | 5.43 | **1,003.02** | 13.77 | **999.42** | 7.22 | **1,002.18** | 11.71 | **999.86** |
| 12/04/07 | NM | NM | ABN | ABN | 12.19 | **1,000.50** | 10.42 | **998.80** | 17.63 | **997.47** | 13.91 | **996.00** | 9.93 | **998.52** | 14.85 | **998.34** | 9.95 | **999.45** | 12.82 | **998.75** |
| 03/05/08 | NM | NM | ABN | ABN | 9.16 | **1,003.53** | 7.23 | **1,001.99** | 14.98 | **1,000.12** | 10.18 | **999.73** | 10.17 | **998.28** | 9.10 | **1,004.09** | 4.98 | **1,004.42** | 10.12 | **1,001.45** |
| 06/04/08 | NM | NM | ABN | ABN | 10.31 | **1,002.38** | 8.70 | **1,000.52** | 14.90 | **1,000.20** | 12.21 | **997.70** | 7.61 | **1,000.84** | 13.41 | **999.78** | 8.73 | **1,000.67** | 10.80 | **1,000.77** |
| 09/09/08 | NM | NM | ABN | ABN | 10.74 | **1,001.95** | 9.33 | **999.89** | 15.74 | **999.36** | 12.92 | **996.99** | 7.97 | **1,000.48** | 13.91 | **999.28** | 9.36 | **1,000.04** | 11.93 | **999.64** |
| 08/07/09 | NM | NM | ABN | ABN | NM | NM | NM | NM | 15.03 | **1,000.07** | 12.64 | **997.27** | NM | NM | 13.09 | **1,000.10** | NM | NM | NM | NM |
| 11/30/09 | 10.91 | **1,002.20** | ABN | ABN | 7.53 | **1,005.16** | 6.28 | **1,002.94** | 12.47 | **1,002.63** | 10.12 | **999.79** | 6.98 | **1,001.47** | 10.66 | **1,002.53** | 5.55 | **1,003.85** | 8.34 | **1,003.23** |
| 02/18/11 | 11.92 | **1,001.19** | ABN | ABN | 8.95 | **1,003.74** | 7.68 | **1,001.54** | 13.56 | **1,001.54** | 10.81 | **999.10** | 6.81 | **1,001.64** | ABN | ABN | 7.21 | **1,002.19** | ABN | ABN |
| 05/31/11 | 11.29 | **1,001.82** | ABN | ABN | 8.51 | **1,004.18** | 7.19 | **1,002.03** | 13.16 | **1,001.94** | 10.31 | **999.60** | 7.92 | **1,000.53** | ABN | ABN | 6.46 | **1,002.94** | ABN | ABN |
| 10/08/12 | NM | NM | ABN | ABN | NM | NM | NM | NM | 15.20 | **999.90** | 11.24 | **998.67** | 8.92 | **999.53** | ABN | ABN | 7.05 | **1,002.35** | ABN | ABN |
| 06/03/13 | NM | NM | ABN | ABN | NM | NM | NM | NM | NM | NM | ABN | ABN | NM | NM | ABN | ABN | NM | NM | ABN | ABN |
| 07/17/13 | 10.40 | **1,002.71** | ABN | ABN | 6.50 | **1,006.19** | NM | NM | 12.45 | **1,002.65** | ABN | ABN | 4.91 | **1,003.54** | ABN | ABN | 3.98 | **1,005.42** | ABN | ABN |
| 01/06/14 | 10.36 | **1,002.75** | ABN | ABN | 6.44 | **1,006.25** | NM | NM | 12.27 | **1,002.83** | ABN | ABN | 4.51 | **1,003.94** | ABN | ABN | 1.74 | **1,007.66** | ABN | ABN |
| 07/14/14 | ABN | ABN | ABN | ABN | 9.31 | **1,003.38** | 12.41 | **1,001.06** | 13.23 | **1,001.87** | ABN | ABN | 8.01 | **1,000.44** | ABN | ABN | 10.73 | **1,001.67** | ABN | ABN |

Notes: See last page of table.

**Table A-1. Groundwater Elevation Data**
**2001-2013**
**ARAMARK Dekalb Site, Atlanta, GA**

| Observation Well: | | **MW-208P** | | **MW-209P(PZ-2)** | | **MW-210** | | **MW-211** | | **MW-212** | | **MW-213**[3] | | **MW-214**[3] | | **MW-301** | | **MW-302** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date: | | NA | | NA | | 5/22/2013 | | 5/22/2013 | | 5/22/2013 | | 5/22/2013 | | 5/22/2013 | | 4/4/2006 | | 4/4/2006 |
| Monitored Zone: | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Deep Residuum | | Shallow Residuum | | Shallow Residuum |
| Elevation, ft. AMSL[1,2,3]: | | | | | | | | | | | | | | | | | | |
| Access Port/Well Casing. | | 1,013.000 | | 1,013.200 | | 1,016.230 | | 1,016.370 | | 1,014.060 | | 1,009.790 | | 1,009.400 | | 1,012.600 | | 1,011.911 |
| Elevation, ft. AMSL[1]: | NewTOC[3] | 1012.86 | | | | | | | | | | | | | | | | |
| Well Screen Interval | | 1009.74-999.74 | | 1008.78-998.78 | | 1003.28-993.28 | | 1005.37-995.37 | | 1006.56-996.56 | | 1002.79-992.79 | | 944.90-934.90 | | 994.62-984.62 | | 991.94-981.94 |
| Date | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, | Ground-Water Elevation, | Depth to Water, | Ground-Water Elevation, | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL |
| 08/17/01 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 03/04/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 04/22/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 05/02/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 05/07/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 05/16/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 12/17/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 04/06/04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 07/27/04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 07/12/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 09/07/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 09/19/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 10/11/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 12/13/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 12/20/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM |
| 01/25/06 | NI | NI | 9.65 | **1,003.55** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM | NI | NM |
| 04/10/06 | NI | NM | 11.03 | **1,002.17** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 10.40 | **1,002.20** | 10.37 | **1,001.54** |
| 05/15/06 | 8.31 | **1,004.69** | 10.91 | **1,002.29** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 10.49 | **1,002.11** | 10.46 | **1,001.45** |
| 08/14/06 | 9.02 | **1,003.98** | 12.08 | **1,001.12** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 11.31 | **1,001.29** | 10.99 | **1,000.92** |
| 11/07/06 | 8.75 | **1,004.25** | 12.41 | **1,000.79** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 11.46 | **1,001.14** | 11.13 | **1,000.78** |
| 02/07/07 | 8.25 | **1,004.75** | 11.14 | **1,002.06** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 10.96 | **1,001.64** | 10.77 | **1,001.14** |
| 05/30/07 | 9.76 | **1,003.24** | 13.03 | **1,000.17** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 12.17 | **1,000.43** | 11.62 | **1,000.29** |
| 09/17/07 | 9.42 | **1,003.58** | 13.97 | **999.23** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 12.96 | **999.64** | 12.35 | **999.56** |
| 12/04/07 | 12.82 | **1,000.18** | 14.74 | **998.46** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 13.86 | **998.74** | 13.36 | **998.55** |
| 03/05/08 | 6.98 | **1,006.02** | 10.33 | **1,002.87** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 11.91 | **1,000.69** | 11.68 | **1,000.23** |
| 06/04/08 | 9.46 | **1,003.54** | 12.86 | **1,000.34** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 12.05 | **1,000.55** | 11.55 | **1,000.36** |
| 09/09/08 | 10.03 | **1,002.97** | 13.74 | **999.46** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 13.03 | **999.57** | 12.34 | **999.57** |
| 08/07/09 | NM | NM | NM | NM | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NM | NM | NM | NM |
| 11/30/09 | 7.36 | **1,005.64** | 9.59 | **1,003.61** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 9.76 | **1,002.84** | 9.74 | **1,002.17** |
| 02/18/11 | 8.18 | **1,004.82** | ABN | ABN | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | ABN | ABN | ABN | ABN |
| 05/31/11 | 7.90 | **1,005.10** | ABN | ABN | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | ABN | ABN | ABN | ABN |
| 10/08/12 | NM | NM | ABN | ABN | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | ABN | ABN | ABN | ABN |
| 06/03/13 | NM | NM | ABN | ABN | 13.56 | **1,002.67** | 13.21 | **1,003.16** | 10.18 | **1,003.88** | 10.29 | **999.50** | 10.85 | **998.55** | ABN | ABN | ABN | ABN |
| 07/17/13 | 7.90 | **1,005.10** | ABN | ABN | 13.36 | **1,002.87** | 12.45 | **1,003.92** | 9.99 | **1,004.07** | 6.76 | **1,003.03** | 7.35 | **1,002.05** | ABN | ABN | ABN | ABN |
| 01/06/14 | 5.13 | **1,007.73** | ABN | ABN | 13.25 | **1,002.98** | 11.76 | **1,004.61** | 9.91 | **1,004.15** | 6.51 | **1,003.28** | 6.91 | **1,002.49** | ABN | ABN | ABN | ABN |
| 07/14/14 | 8.65 | **1,004.21** | ABN | ABN | ABN | ABN | ABN | ABN | 12.11 | **1,001.95** | 8.27 | **1,001.52** | 8.61 | **1,000.79** | ABN | ABN | ABN | ABN |

Notes: See last page of table.

**Table A-1. Groundwater Elevation Data**
**2001-2013**
**ARAMARK Dekalb Site, Atlanta, GA**

| Observation Well: | **MW-303** | | **MW-306** | | **MW-401** | | **MW-402** | | **MW-403** | | **MW-404** | | **MW-405** | | **MW-406** | | **MW-407** | | **MW-408** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date: | 4/4/2006 | | 4/3/2006 | | 4/13/2006 | | 4/13/2006 | | 4/13/2006 | | 4/14/2006 | | 4/14/2006 | | 4/18/2007 | | 4/18/2007 | | 4/18/2007 | |
| Monitored Zone: | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | |
| Elevation, ft. AMSL[1,2,3]: Access Port/Well Casing. | 1,009.386 | | 1,008.496 | | 1,013.690 | | 1,016.210 | | 1,015.220 | | 1,009.130 | | 1,015.840 | | 1,015.000 | | 1,012.890 | | 1,009.910 | |
| Elevation, ft. AMSL[1]: Well Screen Interval | 990.41-980.41 | | 987.83-977.83 | | 1007.74-997.74 | | 1006.74-996.74 | | 1002.61-992.61 | | 1005.20-995.20 | | 1007.24-997.24 | | 1002.74-992.74 | | 1003.41-993.41 | | 1003.91-993.91 | |
| Date | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL |
| 08/17/01 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 03/04/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/22/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/02/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/07/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/16/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/17/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/06/04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/27/04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/12/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 09/07/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 09/19/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 10/11/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/13/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/20/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 01/25/06 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/10/06 | 7.73 | **1,001.66** | 7.50 | **1,001.00** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/15/06 | 7.79 | **1,001.60** | 7.48 | **1,001.02** | 7.70 | **1,005.99** | 13.82 | **1,002.39** | 14.88 | **1,000.34** | 5.77 | **1,003.36** | 12.56 | **1,003.28** | NI | NI | NI | NI | NI | NI |
| 08/14/06 | 8.65 | **1,000.74** | 8.19 | **1,000.31** | 8.66 | **1,005.03** | 15.06 | **1,001.15** | 15.54 | **999.68** | 7.46 | **1,001.67** | NM | NM | NI | NI | NI | NI | NI | NI |
| 11/07/06 | 8.79 | **1,000.60** | 8.41 | **1,000.09** | 8.83 | **1,004.86** | 15.37 | **1,000.84** | 15.70 | **999.52** | 7.15 | **1,001.98** | 13.85 | **1,001.99** | NI | NI | NI | NI | NI | NI |
| 02/07/07 | 8.28 | **1,001.11** | 8.41 | **1,000.09** | NM | NM | 14.82 | **1,001.39** | 15.11 | **1,000.11** | 6.28 | **1,002.85** | 13.34 | **1,002.50** | NI | NI | NI | NI | NI | NI |
| 05/30/07 | 9.38 | **1,000.01** | 9.14 | **999.36** | NM | NM | 15.65 | **1,000.56** | 16.38 | **998.84** | 8.78 | **1,000.35** | 14.75 | **1,001.09** | NM | NM | NM | NM | NM | NM |
| 09/17/07 | 10.13 | **999.26** | 9.47 | **999.03** | NM | NM | 16.86 | **999.35** | 16.87 | **998.35** | 10.25 | **998.88** | 15.67 | **1,000.17** | NM | NM | NM | NM | NM | NM |
| 12/04/07 | 11.06 | **998.33** | 10.57 | **997.93** | NM | NM | NM | NM | 17.75 | **997.47** | 11.63 | **997.50** | 16.62 | **999.22** | 15.39 | **999.61** | 14.09 | **998.80** | 11.35 | **998.56** |
| 03/05/08 | 9.45 | **999.94** | 8.26 | **1,000.24** | NM | NM | 16.50 | **999.71** | 15.59 | **999.63** | 5.86 | **1,003.27** | 14.75 | **1,001.09** | 12.61 | **1,002.39** | 12.17 | **1,000.72** | 6.33 | **1,003.58** |
| 06/04/08 | 9.35 | **1,000.04** | 8.82 | **999.68** | NM | NM | 15.82 | **1,000.39** | 16.19 | **999.03** | 8.56 | **1,000.57** | 14.66 | **1,001.18** | 13.46 | **1,001.54** | 12.30 | **1,000.59** | 9.46 | **1,000.45** |
| 09/09/08 | 10.02 | **999.37** | 9.42 | **999.08** | NM | NM | 16.94 | **999.27** | 16.81 | **998.41** | 10.34 | **998.79** | 15.25 | **1,000.59** | 14.00 | **1,001.00** | 12.99 | **999.90** | 10.32 | **999.59** |
| 08/07/09 | NM | NM | NM | NM | NM | NM | NM | NM | 16.31 | **998.91** | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 11/30/09 | 7.11 | **1,002.28** | 6.58 | **1,001.92** | NM | NM | 13.61 | **1,002.60** | 14.04 | **1,001.18** | 5.82 | **1,003.31** | 11.72 | **1,004.12** | 10.81 | **1,004.19** | 9.85 | **1,003.04** | 7.56 | **1,002.35** |
| 02/18/11 | ABN | ABN | 7.91 | **1,000.59** | NM | NM | 14.62 | **1,001.59** | 15.23 | **999.99** | ABN | ABN | 13.14 | **1,002.70** | ABN | ABN | ABN | ABN | ABN | ABN |
| 05/31/11 | ABN | ABN | 7.86 | **1,000.64** | NM | NM | 14.02 | **1,002.19** | 14.82 | **1,000.40** | ABN | ABN | 12.65 | **1,003.19** | ABN | ABN | ABN | ABN | ABN | ABN |
| 10/08/12 | ABN | ABN | NM | NM | NM | NM | 16.19 | **1,000.02** | 16.52 | **998.70** | ABN | ABN | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN |
| 06/03/13 | ABN | ABN | NM | NM | NM | NM | NM | NM | NM | NM | ABN | ABN | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN |
| 07/17/13 | ABN | ABN | 6.90 | **1,001.60** | 5.69 | **1,008.00** | 13.04 | **1,003.17** | 14.45 | **1,000.77** | ABN | ABN | 11.19 | **1,004.65** | ABN | ABN | ABN | ABN | ABN | ABN |
| 01/06/14 | ABN | ABN | 6.04 | **1,002.46** | 6.11 | **1,007.58** | 13.04 | **1,003.17** | 13.39 | **1,001.83** | ABN | ABN | 11.56 | **1,004.28** | ABN | ABN | ABN | ABN | ABN | ABN |
| 07/14/14 | ABN | ABN | 7.95 | **1,000.55** | 8.33 | **1,005.36** | ABN | ABN | 15.08 | **1,000.14** | ABN | ABN | 12.97 | **1,002.87** | ABN | ABN | ABN | ABN | ABN | ABN |

Notes: See last page of table.

**Table A-1. Groundwater Elevation Data**
**2001-2013**
**ARAMARK Dekalb Site, Atlanta, GA**

| Observation Well: | | **MW-409** | | **MW-409D** | | **PZ-1** | | **TW-1** | | **TW-2** | | **TW-3** | | **TMW-1** | | **TMW-2** | | **TMW-3** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date: | | 4/19/2007 | | 4/19/2007 | | 4/8/2003 | | 9/17/2005 | | 9/17/2005 | | 9/17/2005 | | 8/5/2008 | | 8/5/2008 | | 8/5/2008 |
| Monitored Zone: | | Shallow Residuum | | Deep Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum |
| Elevation, ft. AMSL[1,2,3]: | | | | | | | | | | | | | | | | | | |
| Access Port/Well Casing. | | 1,016.360 | | 1,016.070 | | 1,009.286 | | No Survey | | No Survey | | No Survey | | No Survey | | No Survey | | No Survey |
| Elevation, ft. AMSL[1]: | | | | | | | | | | | | | | | | | | |
| Well Screen Interval | | 1006.07-996.07 | | 978.37-985.37 | | 1004.31-989.31 | | NA | | NA | | NA | | NA | | NA | | NA |
| Date | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL |
| 08/17/01 | NI | NI | NI | NM | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 03/04/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/22/03 | NI | NI | NI | NI | 4.48 | **1,004.81** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/02/03 | NI | NI | NI | NI | 5.83 | **1,003.46** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/07/03 | NI | NI | NI | NI | 2.02 | **1,007.27** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/16/03 | NI | NI | NI | NI | NM | NM | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/17/03 | NI | NI | NI | NI | NM | NM | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/06/04 | NI | NI | NI | NI | 7.30 | **1,001.99** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/27/04 | NI | NI | NI | NI | 3.97 | **1,005.32** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/12/05 | NI | NI | NI | NI | 1.83 | **1,007.46** | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 09/07/05 | NI | NI | NI | NI | 6.59 | **1,002.70** | 14.04 | No survey | 14.31 | No survey | 13.85 | No survey | NI | NI | NI | NI | NI | NI |
| 09/19/05 | NI | NI | NI | NI | 7.20 | **1,002.09** | 14.37 | No survey | 13.11 | No survey | 14.20 | No survey | NI | NI | NI | NI | NI | NI |
| 10/11/05 | NI | NI | NI | NI | NM | NM | 13.69 | No survey | 12.90 | No survey | 13.41 | No survey | NI | NI | NI | NI | NI | NI |
| 12/13/05 | NI | NI | NI | NI | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 12/20/05 | NI | NI | NI | NI | 5.43 | **1,003.86** | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 01/25/06 | NI | NI | NI | NI | 2.83 | **1,006.46** | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 04/10/06 | NI | NI | NI | NI | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 05/15/06 | NI | NI | NI | NI | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 08/14/06 | NI | NI | NI | NI | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 11/07/06 | NI | NI | NI | NI | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 02/07/07 | NI | NI | NI | NI | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 05/30/07 | NM | NM | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 09/17/07 | NM | NM | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 12/04/07 | 17.32 | **999.04** | 17.00 | **999.07** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 03/05/08 | 15.32 | **1,001.04** | 15.00 | **1,001.07** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 06/04/08 | 15.46 | **1,000.90** | 15.15 | **1,000.92** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NI | NI | NI | NI | NI | NI |
| 09/09/08 | 15.79 | **1,000.57** | 16.10 | **999.97** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | 10.2 | No survey | 11.61 | No survey | 10.90 | No survey |
| 08/07/09 | NM | NM | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | NM | No survey | NM | No survey | NM | No survey |
| 11/30/09 | 12.82 | **1,003.54** | 12.62 | **1,003.45** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | 7.83 | No survey | 8.85 | No survey | 8.36 | No survey |
| 02/18/11 | 14.08 | **1,002.28** | 13.80 | **1,002.27** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 05/31/11 | 13.60 | **1,002.76** | 13.34 | **1,002.73** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 10/08/12 | NM | NM | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 06/03/13 | NM | NM | NM | NM | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 07/17/13 | 12.39 | **1,003.97** | 12.07 | **1,004.00** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 01/06/14 | 12.46 | **1,003.90** | 12.15 | **1,003.92** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 07/14/14 | 13.85 | **1,002.51** | 13.58 | **1,002.49** | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |

Notes: See last page of table.

**Table A-1. Groundwater Elevation Data**
**2001-2013**
**ARAMARK Dekalb Site, Atlanta, GA**

| Observation Well: | **ED-1** | | **ED-2** | | **ED-3** | | **ED-4** | | **ED-5** | |
|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date: | 12/7/2005 | | 12/7/2005 | | 12/7/2005 | | 12/7/2005 | | 12/7/2005 | |
| Monitored Zone: | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | | Shallow Residuum | |
| Elevation, ft. AMSL[1,2,3]: Access Port/Well Casing. | 1028.59 | | 1028.28 | | 1028.89 | | 1028.81 | | 1031.50 | |
| Elevation, ft. AMSL[1]: Well Screen Interval | 1006.09-996.09 | | 1008.93-998.93 | | 1006.19-996.19 | | 1004.51-994.51 | | 999.40-989.40 | |
| Date | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL | Depth to Water, feet | Ground-Water Elevation, ft. AMSL |
| 08/17/01 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 03/04/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/22/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/02/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/07/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 05/16/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/17/03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 04/06/04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/27/04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 07/12/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 09/07/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 09/19/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 10/11/05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| 12/13/05 | 29.11 | **999.48** | 26.79 | **1,001.49** | 28.20 | **1,000.69** | 28.93 | **999.88** | 33.51 | **997.99** |
| 12/20/05 | 29.88 | **998.71** | 26.63 | **1,001.65** | 27.90 | **1,000.99** | 28.96 | **999.85** | 33.54 | **997.96** |
| 01/25/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 04/10/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 05/15/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 08/14/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 11/07/06 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 02/07/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 05/30/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 09/17/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 12/04/07 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 03/05/08 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 06/04/08 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 09/09/08 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 08/07/09 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 11/30/09 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 02/18/11 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 05/31/11 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 10/08/12 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 06/03/13 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 07/17/13 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 01/06/14 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |
| 07/14/14 | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN | ABN |

Notes: See last page of table.

# Table A-1. Groundwater Elevation Data
# ARAMARK DeKalb Site, Atlanta, GA

1. Feet above mean sea level.
2. Represents updated top-of-casing elevations. Monitoring wells MW-102, -201 through -205, and PZ-1 were resurveyed on July 30, 2004.
3 Monitoring wells MW-208P, MW-213 and MW-214 were resurveyed on October 21, 2013
4 Monitoring wells MW-203 and MW-207P were resurveyed in May 2014

NI Well not installed.
NM Not measured.
NA Not Available
ABN Well Abandoned

**Note:** No potentiometric data available for: (1) DePaul monitoring wells MW-1, -2, -3, and -4 installed in August 1990 and MW-5, -6, -7, -8, and -9 installed in May 1992; (2) Pickering Environmental Consultants Geoprobe sample points BH-1. BH-2, and BH-2 completed December 2002; (3) QORE Geoprobe Borings B-1, B-2, and B-3; (4) Laws direct Push Borings DP-101, DP-201, DP-103, DP-104, and DP-105; (5) MACTEC Temp. Wells TW-34, TW-35, and TW-36

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-20Z
Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-10-14
Comments: | Time In: 1520 | Time Out: 1735

## Well Information

Well Diameter: 2 inches | Reference Point Marked: (Yes) No
Depth to Water: 9.25 feet below T.O.C. | Well Depth: 21.51 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 12.26 ft
1 Well Volume= 2 gal
3 Well Volume= 6 gal
Total Purged: 6.0 gal
Well Purge Dry (?): yes/no

Purge Method (check): ☑ Low Flow-Low Stress ☐ Micro-purge
Purge Start Time: 1557
Purge End Time: 1720
Total Time: 83 min
Purge Rate: 0.07 gpm

Purging Equipment and Calibration Information
Bailer: ☑ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# 7
Pump Tubing Type: ☑ Teflon ☐ Teflon-Lined Poly. ☐ Polyethylene
Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#'s 3/2
Calibration Date/Time: 07-10-14 1246
Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1602 | 0.25 | 25.8 | 490 | 6.78 | — | — | 23.25 | 13.83 |
| 1618 | 1.0 | 22.3 | 497 | 6.42 | — | — | 7.65 | 14.85 |
| 1632 | 2.0 | 22.6 | 491 | 6.47 | — | — | 5.78 | 15.50 |
| 1656 | 4.0 | 22.1 | 491 | 6.43 | — | — | 3.82 | 15.60 |
| 1718 | 6.0 | 21.3 | 492 | 6.47 | — | — | 4.31 | 15.91 |
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| Stabilization Info: | | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- |

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other
Final Tubing/Pump Depth: 15.94 feet below T.O.C | Final Groundwater Depth(if applic.) 15.91 feet below T.O.C
Final Sample Turbidity: 4.31 NTUs | Ferrous Iron Concentration (if sampled): — mg/L
Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-20Z | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1720 |
| | | | | | |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-203

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-11-14

Comments: | Time In: 915 | Time Out: 1140

**Well Information**

Well Diameter: 2 inches | Reference Point Marked: (Yes) No

Depth to Water: 12.97 feet below T.O.C. | Well Depth: 28.78 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

**Purging Information**

Water Column: 15.81 ft

1 Well Volume= 2.5 gal

3 Well Volume= 7.5 gal

Total Purged: 7.5 gal

Well Purge Dry (?): yes/(no)

Purge Method (check): [x] Low Flow-Low Stress [ ] Micro-purge

Purge Start Time: 925

Purge End Time: 1135

Total Time: 130 min

Purge Rate: 0.06 gpm

**Purging Equipment and Calibration Information**

Bailer: [ ] Teflon [ ] Poly. Pump: [ ] Grundfos [x] Peri. ID# 7

Pump Tubing Type: [x] Teflon [ ] Teflon-Lined Poly. [ ] Polyethylene

Meter(s) Used: [x] Hanna 991300 [ ] YSI 556 [x] Lamotte 2020 ID#'s 3/2

Calibration Date/Time: 7-11-14 0825

Comments:

**Groundwater Field Parameters**

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 927 | 0.13 | 25.7 | — | 6.00 | — | — | 6.21 | 14.95 |
| 943 | 1.0 | 23.1 | 342 | 5.95 | — | — | 5.12 | 15.58 |
| 959 | 2.0 | 23.2 | 332 | 6.05 | — | — | 3.03 | 16.99 |
| 1020 | 3.5 | 23.1 | 330 | 6.03 | — | — | 3.72 | 17.78 |
| 1045 | 5.0 | 23.3 | 336 | 6.08 | — | — | 1.54 | 18.09 |
| 1106 | 6.0 | 23.2 | 342 | 6.07 | — | — | 3.04 | 18.51 |
| 1134 | 7.5 | 22.7 | 332 | 6.12 | — | — | 2.15 | 18.61 |
| | | | | | | | | |
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| | | | | | | | | |
| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

**Sample Collection Parameters**

Sample Collection Method (check all): [ ] Bailer [x] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other

Final Tubing/Pump Depth: 18.64 feet below T.O.C | Final Groundwater Depth(if applic.) 18.61 feet below T.O.C

Final Sample Turbidity: 2.15 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

**Laboratory Analytical Information**

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-203 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1135 |
| | | | | | |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-204
Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7/11/14
Comments: Cloudy - rain | Time In: 1450 Time Out: 1600

**Well Information**

Well Diameter: 2.0 inches | Reference Point Marked: (Yes) No
Depth to Water: 13.06 feet below T.O.C. | Well Depth: 22.91 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
(0.16) gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

**Purging Information**

Water Column: 9.85 ft
1 Well Volume= 1.57 gal
3 Well Volume= 4.73 gal
Total Purged: 4.75 gal
Well Purge Dry (?): yes/(no)

Purge Method (check): [X] Low Flow-Low Stress [ ] Micro-purge
Purge Start Time: 1504
Purge End Time: 1544
Total Time: 40 min
Purge Rate: .12 gpm

**Purging Equipment and Calibration Information**

Bailer: [ ] Teflon [ ] Poly. Pump: [ ] Grundfos [X] Peri. ID# D.6
Pump Tubing Type: [ ] Teflon [X] Teflon-Lined Poly. [ ] Polyethylene
Meter(s) Used: [X] Hanna 991300 [ ] YSI 556 [X] Lamotte 2020 ID#'s 8,5
Calibration Date/Time: 7/11/14
Comments:

**Groundwater Field Parameters**

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1512 | 1.0 | 21.8 | 228 | 4.68 | | | 6.56 | 13.56 |
| 1520 | 2.0 | 21.3 | 240 | 4.60 | | | 2.90 | 13.56 |
| 1527 | 3.0 | 21.9 | 246 | 4.60 | | | 2.07 | 13.56 |
| 1536 | 4.0 | 21.7 | 249 | 4.59 | | | 1.81 | 13.56 |
| 1544 | 4.75 | 21.4 | 250 | 4.59 | | | 2.06 | 13.56 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

**Sample Collection Parameters**

Sample Collection Method (check all): [ ] Bailer [X] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other
Final Tubing/Pump Depth: ~ 14.25 feet below T.O.C | Final Groundwater Depth(if applic.) 13.56 feet below T.O.C
Final Sample Turbidity: 2.06 NTUs | Ferrous Iron Concentration (if sampled): mg/L
Comments:

**Laboratory Analytical Information**

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-204 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1550 |
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Sample Laboratory (circle): ACL/Kenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-206

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-11-14

Comments: | Time In: 1320 | Time Out: 1500

## Well Information

Well Diameter: 2 inches | Reference Point Marked: (Yes) No

Depth to Water: 4.91 feet below T.O.C. | Well Depth: 14.18 feet below T.O.C.

| 0.04 gal/ft in 1-inch-ID well |
|---|
| 0.16 gal/ft in 2-inch-ID well |
| 0.65 gal/ft in 4-inch-ID well |

## Purging Information

Water Column: 9.27 ft

1 Well Volume= 1.48 gal

3 Well Volume= 4.45 gal

Total Purged: 4.7 gal

Well Purge Dry (?): yes/(no)

Purge Method (check): [x] Low Flow-Low Stress [ ] Micro-purge

Purge Start Time: 1334

Purge End Time: 1453

Total Time: 79M min

Purge Rate: 0.06 gpm

## Purging Equipment and Calibration Information

Bailer: [ ] Teflon [ ] Poly. Pump: [ ] Grundfos [x] Peri. ID# 7

Pump Tubing Type: [x] Teflon [ ] Teflon-Lined Poly. [ ] Polyethylene

Meter(s) Used: [x] Hanna 991300 [ ] YSI 556 [x] Lamotte 2020 ID#'s 3/2

Calibration Date/Time: 7-11-14 0825

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1335 | — | 28.0 | 1168 | 6.69 | — | — | 12.94 | 5.07 |
| 1348 | 1.5 | 26.0 | 1247 | 6.73 | — | — | ~~6.37~~ 6.37 us 891 | |
| 1413 | 3.0 | 24.8 | 1435 | 6.80 | — | — | 3.99 | 7.29 |
| 1443 | 4.3 | 25.4 | 1697 | 6.85 | — | — | 11.67 | 8.96 |
| 1447 | 4.5 | 24.0 | 1622 | 6.86 | — | — | 4.12 | 9.15 |
| 1451 | 4.7 | 23.5 | 1669 | 6.88 | — | — | 5.89 | 9.35 |
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| | | | | | | | | |
| Stabilization Info: | | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- |

## Sample Collection Parameters

Sample Collection Method (check all): [ ] Bailer [x] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other

Final Tubing/Pump Depth: 9.65 feet below T.O.C | Final Groundwater Depth(if applic.) 9.35 feet below T.O.C

Final Sample Turbidity: 5.89 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-206 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1453 |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/(Fed-Ex/UPS)/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-207P

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-11-14

Comments: | Time In: 1150 | Time Out: 1215

## Well Information

Well Diameter: 1" inches | Reference Point Marked: (Yes) No

Depth to Water: 12.05 feet below T.O.C. | Well Depth: 13.19 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 1.14 ft

1 Well Volume= 0.05 gal

3 Well Volume= 0.14 gal

Total Purged: 0.15 gal

Well Purge Dry (?): yes (no)

Purge Method (check): ☑ Low Flow-Low Stress ☐ Micro-purge

Purge Start Time: 1200

Purge End Time: 1210

Total Time: 10M min

Purge Rate: .015 gpm

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# 7

Pump Tubing Type: ☑ Teflon ☐ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#'s 3/2

Calibration Date/Time: 7-14-14 0825

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1204 | — | 26.7 | 418 | 6.51 | — | — | 32.16 | 12.15 |
| 1207 | 0.05 | 23.4 | 405 | 6.51 | — | — | 4.79 | 12.20 |
| 1210 | 0.15 | 22.6 | 409 | 6.55 | — | — | 1.85 | 12.20 |
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| | | | | | | | | |
| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 12.23 feet below T.O.C | Final Groundwater Depth(if applic.) 12.20 feet below T.O.C

Final Sample Turbidity: 1.85 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-207P | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1212 |
| | | | | | |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-208P

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-10-14

Comments: | Time In: 1520 | Time Out: 1740

## Well Information

Well Diameter: 1" inches | Reference Point Marked: (Yes) No

Depth to Water: 8.90 feet below T.O.C. | Well Depth: 13.11 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 4.21 ft

1 Well Volume= 0.16 gal

3 Well Volume= 0.5 gal

Total Purged: 0.2 gal

Well Purge Dry (?): (yes)/no

Purge Method (check): ☑ Low Flow-Low Stress ☐ Micro-purge

Purge Start Time: 1530

Purge End Time: 1543

Total Time: 13 min

Purge Rate: 0.015 gpm

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# 7

Pump Tubing Type: ☑ Teflon ☐ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#'s 3/2

Calibration Date/Time: 7-10-14 1246

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1535 | - | 27.6 | 534 | 6.52 | — | — | 44.51 | 10.78 |
| 1542 | 0.2 | 23.8 | 532 | 6.51 | — | — | 139 | 12.85 |
| 1543 | — | WELL | DRY | | | | | |
| 1723 | - | - | - | - | — | — | clear | 8.85 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 8.61 feet below T.O.C

Final Groundwater Depth(if applic.) 8.85 feet below T.O.C

Final Sample Turbidity: clear NTUs

Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-208P | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1730 |
| | | | | | |
| | | | | | |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

9

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-212
Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-11-14
Comments: P.Cloudy - warm | Time In: 1316 Time Out: 1446

**Well Information**

Well Diameter: 2.0 inches | Reference Point Marked: (Yes) No
Depth to Water: 11.98 feet below T.O.C. | Well Depth: 19.80 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
(0.16) gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

**Purging Information**

Water Column: ~~7.82~~ 7.82 ft
1 Well Volume= 1.25 gal
3 Well Volume= 3.75 gal
Total Purged: 3.75 gal
Well Purge Dry (?): yes (no)

Purge Method (check): [X] Low Flow-Low Stress [ ] Micro-purge
Purge Start Time: 1334
Purge End Time: 1431
Total Time: 57 min
Purge Rate: .07 gpm

**Purging Equipment and Calibration Information**

Bailer: ~~[X] Teflon~~ [ ] Poly. Pump: [ ] Grundfos [X] Peri. ID# D-6
Pump Tubing Type: [ ] Teflon [X] Teflon-Lined Poly. [ ] Polyethylene
Meter(s) Used: [X] Hanna 991300 [ ] YSI 556 [X] Lamotte 2020 ID#'s 85
Calibration Date/Time: 7-11-14
Comments:

**Groundwater Field Parameters**

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1349 | 1.25 | 22.00 | 1603 | 11.53 | — | — | 53.3 | ~~15.01~~ |
| 1405 | 2.25 | 20.9 | 1397 | 10.90 | — | — | 38.3 | 16.23 |
| 1414 | 3.25 | 20.2 | 1390 | 10.97 | — | — | 18.10 | 16.57 |
| 1431 | 3.75 | 20.4 | 1390 | 10.90 | — | — | 9.91 | 17.01 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | | <10 NTUs | ----- |

**Sample Collection Parameters**

Sample Collection Method (check all): [ ] Bailer [X] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other
Final Tubing/Pump Depth: ~17.50 feet below T.O.C. | Final Groundwater Depth(if applic.) 17.01 feet below T.O.C
Final Sample Turbidity: 9.91 NTUs | Ferrous Iron Concentration (if sampled): — mg/L
Comments:

**Laboratory Analytical Information**

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-212 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1425 |
| | | | | | |
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Sample Laboratory (circle): ACL/Kenco/AES/Other | Delivery Method: Hand-Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-213

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent & Meagan Knowlton | Date: 7/11/14

Comments: | Time In: 1600 | Time Out: 1800

## Well Information

Well Diameter: 2 inches | Reference Point Marked: Yes No

Depth to Water: 5.15 feet below T.O.C. | Well Depth: 17.44 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 12.29 ft
1 Well Volume= 1.97 gal
3 Well Volume= 5.92 gal
Total Purged: 6.0 gal
Well Purge Dry (?): yes/no

Purge Method (check): ☑ Low Flow-Low Stress ☐ Micro-purge

Purge Start Time: 1615
Purge End Time: 1737
Total Time: 82 min
Purge Rate: 0.07 gpm

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# 6

Pump Tubing Type: ☐ Teflon ☑ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#'s 1, 5

Calibration Date/Time: 7/11/14

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1630 | 1.0 | 23.5 | 1351 | 10.72 | — | — | 96.8 | 9.85 |
| 1648 | 2.0 | 21.6 | 1384 | 10.64 | — | — | 8.59 | #10.91 |
| 1701 | 3.0 | 20.7 | 1392 | 10.61 | — | — | 25.8 | 11.78 |
| 1711 | 4.0 | 20.0 | 1401 | 10.31 | — | | 37.7 | 12.85 |
| 1721 | 5.0 | 20.4 | 1402 | 10.12 | — | — | 26.4 | 13.40 |
| 1737 | 6.0 | 20.1 | 1407 | 10.23 | — | — | 5.07 | 13.80 |
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| Stabilization Info: | | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- |

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 14.10 feet below T.O.C | Final Groundwater Depth(if applic.) 13.80 feet below T.O.C

Final Sample Turbidity: 5.07 NTUs | Ferrous Iron Concentration (if sampled): mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-213 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1744 |
| MW-213-dup | VOCs " | 40 mL VOA vials | 2 | HCL | 1744 |
| | | | | | |
| | | | | | |
| | | | | | |

Sample Laboratory (circle): ACL/Kenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature: Meagan Knowlton

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-214

Sampling Personnel: Tony Gordon, (Chad Crumbley) Neil Sargent | Date: 7-10-14

Comments: Sunny - warm | Time In: 1011 | Time Out: 1450

## Well Information

Well Diameter: 2.0 inches | Reference Point Marked: (Yes) No

Depth to Water: 8.49 feet below T.O.C. | Well Depth: 75.00 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
(0.16) gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 66.51 ft
1 Well Volume= 10.64 gal
3 Well Volume= 31.92 gal
Total Purged: 32.00 gal
Well Purge Dry (?): yes (no)

Purge Method (check): [X] Low Flow-Low Stress [ ] Micro-purge

Purge Start Time: 1301
Purge End Time: 1422
Total Time: 74 min
Purge Rate: .43 gpm

## Purging Equipment and Calibration Information

Bailer: [ ] Teflon [ ] Poly. Pump: [X] Grundfos [ ] Peri. ID# P-4

Pump Tubing Type: [ ] Teflon [X] Teflon-Lined Poly. [ ] Polyethylene

Meter(s) Used: [X] Hanna 991300 [ ] YSI 556 [X] Lamotte 2020 ID#'s 15

Calibration Date/Time: 7-10-14 1002

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1329 | 10 | 23.5 | 6062 | 5.37 | — | — | 4.99 | 13.20 |
| 1342 | 15 | 21.5 | 693 | 5.34 | — | — | 2.89 | 13.35 |
| 1354 | 20 | 22.2 | 685 | 5.32 | — | — | 2.22 | 13.35 |
| 1405 | 25 | 21.7 | 654 | 5.35 | — | — | 2.07 | 13.35 |
| 1415 | 29 | 23.1 | 651 | 5.33 | — | — | 1.68 | 13.35 |
| 1422 | 32 | 21.9 | 650 | 5.35 | — | — | 1.27 | 13.35 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

## Sample Collection Parameters

Sample Collection Method (check all): [ ] Bailer [ ] Straw Method [X] Pump Tubing [ ] Vacuum Jug [ ] Other

Final Tubing/Pump Depth: ~ 15.00 feet below T.O.C | Final Groundwater Depth(if applic.) 13.35 feet below T.O.C

Final Sample Turbidity: 1.27 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-214 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1429 |
| Rinsate Blank | " " | " " | 2 | " " | 1020 |
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Sample Laboratory (circle): ACL/(Xenco)/AES/Other | Delivery Method: (Hand Deliver)/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-306
Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-1-14
Comments: | Time In: 1510 | Time Out: 1715

**Well Information**

Well Diameter: 2 inches | Reference Point Marked: (Yes) No
Depth to Water: 8.05 feet below T.O.C. | Well Depth: 30.78 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

**Purging Information**

Water Column: 22.73 ft
1 Well Volume= 3.6 gal
3 Well Volume= 10.7 gal
Total Purged: 10.7 gal
Well Purge Dry (?): yes (no)

Purge Method (check): ☑ Low Flow-Low Stress ☐ Micro-purge
Purge Start Time: 1513
Purge End Time: 1707
Total Time: 114m min
Purge Rate: 0.09 gpm

**Purging Equipment and Calibration Information**

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# 7
Pump Tubing Type: ☑ Teflon ☐ Teflon-Lined Poly. ☐ Polyethylene
Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#'s 3/2
Calibration Date/Time: 7-1-14 0825
Comments:

**Groundwater Field Parameters**

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1514 | — | 25.1 | 309 | 4.88 | — | — | 10.15 | 8.05 |
| 1548 | 3.5 | 23.6 | 339 | 4.52 | — | — | 5.68 | 8.76 |
| 1627 | 7.0 | 22.8 | 338 | 4.50 | — | — | 2.91 | 8.78 |
| 1705 | 10.7 | 22.5 | 344 | 4.49 | — | — | 1.47 | 8.82 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

**Sample Collection Parameters**

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other
Final Tubing/Pump Depth: 9.12 feet below T.O.C | Final Groundwater Depth(if applic.) 8.82 feet below T.O.C
Final Sample Turbidity: 1.47 NTUs | Ferrous Iron Concentration (if sampled): — mg/L
Comments:

**Laboratory Analytical Information**

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-306 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1707 |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-401

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-10-14

Comments: | Time In: 1415 Time Out: 1515

## Well Information

Well Diameter: 2 inches | Reference Point Marked: (Yes) No

Depth to Water: 8.23 feet below T.O.C. | Well Depth: 15.75 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 7.52 ft

1 Well Volume= ~~7.52~~ 1.25 gal

3 Well Volume= 3.6 gal

Total Purged: 3.6 gal

Well Purge Dry (?): yes (no)

Purge Method (check): ☐ Low Flow-Low Stress ☐ Micro-purge

Purge Start Time: 1422

Purge End Time: 1513

Total Time: 51 min

Purge Rate: 0.07 gpm

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# 7

Pump Tubing Type: ☑ Teflon ☐ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#s 3/2

Calibration Date/Time: 07-10-14 1246

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1425 | — | 25.0 | 456 | 6.38 | — | — | 9.87 | 8.33 |
| 1439 | 1.2 | 23.2 | 449 | 6.58 | — | — | 12.51 | 8.38 |
| 1441 | — | — | — | — | — | — | 9.19 | — |
| 1457 | 2.4 | 23.0 | 427 | 6.67 | — | — | 8.51 | 8.38 |
| 1511 | 3.6 | 23.9 | 427 | 6.67 | — | — | 6.41 | 8.39 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 8.17 feet below T.O.C | Final Groundwater Depth(if applic.) 8.39 feet below T.O.C

Final Sample Turbidity: 6.41 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-401 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1513 |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-403

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7/11/14

Comments: P. Cloudy / warm | Time In: 1018 | Time Out: 1210

**Well Information**

Well Diameter: 2.0 inches | Reference Point Marked: (Yes) No

Depth to Water: ~~9.14~~ 15.0L feet below T.O.C. | Well Depth: ~~15.88~~ 22.50 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

**Purging Information**

Water Column: ~~7.78~~ 7.48 ft

1 Well Volume= ~~1.27~~ 1.20 gal

3 Well Volume= ~~3.73~~ 3.59 gal

Total Purged: 3.75 gal

Well Purge Dry (?): yes (no)

Purge Method (check): [X] Low Flow-Low Stress [ ] Micro-purge

Purge Start Time: 1049

Purge End Time: 1149

Total Time: 60 min

Purge Rate: .06 gpm

**Purging Equipment and Calibration Information**

Bailer: [ ] Teflon [ ] Poly. Pump: [ ] Grundfos [X] Peri. ID# P.6

Pump Tubing Type: [ ] Teflon [X] Teflon-Lined Poly. [ ] Polyethylene

Meter(s) Used: [X] Hanna 991300 [ ] YSI 556 [X] Lamotte 2020 ID#'s 1,5

Calibration Date/Time: 7-11-14

Comments:

**Groundwater Field Parameters**

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1103 | 1.0 | 22.3 | 846 | 6.81 | — | — | 4.34 | 16.60 |
| 1118 | 2.0 | 22.1 | 851 | 6.85 | — | — | 19.5 | 17.00 |
| 1137 | 3.0 | 22.8 | 852 | 6.88 | — | — | 12.5 | 17.06 |
| 1149 | 3.75 | 23.3 | 847 | 6.82 | — | — | 8.06 | 17.15 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

**Sample Collection Parameters**

Sample Collection Method (check all): [ ] Bailer [X] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other

Final Tubing/Pump Depth: 17.75 feet below T.O.C | Final Groundwater Depth(if applic.) 17.15 feet below T.O.C

Final Sample Turbidity: 8.06 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

**Laboratory Analytical Information**

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-403 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1154 |
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Sample Laboratory (circle): ACL/Kenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-405

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7-10-14

Comments: | Time In: 1300 | Time Out:

## Well Information

Well Diameter: 2 inches | Reference Point Marked: (Yes) No

Depth to Water: 14.95 feet below T.O.C. | Well Depth: 20.15 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 5.2 ft

1 Well Volume= .8 gal

3 Well Volume= 2.4 gal

Total Purged: 2.4 gal

Well Purge Dry (?): yes (no)

Purge Method (check): [x] Low Flow-Low Stress [ ] Micro-purge

Purge Start Time: 1317

Purge End Time: 1357

Total Time: 40 min

Purge Rate: 0.06 gpm

## Purging Equipment and Calibration Information

Bailer: [ ] Teflon [ ] Poly. Pump: [ ] Grundfos [x] Peri. ID# 7

Pump Tubing Type: [x] Teflon [ ] Teflon-Lined Poly. [ ] Polyethylene

Meter(s) Used: [x] Hanna 991300 [ ] YSI 556 [x] Lamotte 2020 ID#'s 3/2

Calibration Date/Time: 7-10-14 @ 1246

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1320 | — | 25.9 | 400 | 4.24 | — | — | 5.26 | 14.52 |
| 1331 | 0.8 | 23.6 | 383 | 4.27 | — | — | 3.55 | 14.70 |
| 1344 | 1.6 | 22.9 | 384 | 4.31 | — | — | 2.70 | 14.75 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | | <10 NTUs | ----- |

## Sample Collection Parameters

Sample Collection Method (check all): [ ] Bailer [x] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other

Final Tubing/Pump Depth: 14.83 feet below T.O.C | Final Groundwater Depth(if applic.) 14.80 feet below T.O.C

Final Sample Turbidity: 2.70 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-405 | VOCs (Method 8260B) | 40 mL VOA Vials | 7 | HCL | 1357 |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-409

Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7/11/14

Comments: Sunny - Mid / breezy | Time In: 0850 | Time Out: 1015

## Well Information

Well Diameter: 2 inches | Reference Point Marked: (Yes) No

Depth to Water: 13.64 feet below T.O.C. | Well Depth: 19.98 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
(0.16) gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 6.34 ft
1 Well Volume= 1.01 gal
3 Well Volume= 3.04 gal
Total Purged: 3.50 gal
Well Purge Dry (?): yes/(no)

Purge Method (check): ☑ Low Flow-Low Stress ☐ Micro-purge

Purge Start Time: 0915
Purge End Time: 1007
Total Time: 52 min
Purge Rate: .07 gpm

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☑ Peri. ID# P-6

Pump Tubing Type: ☑ Teflon ☐ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☑ Hanna 991300 ☐ YSI 556 ☑ Lamotte 2020 ID#'s 8

Calibration Date/Time: 7/11/14

Comments:

## Groundwater Field Parameters

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 0927 | 1.0 | 20.9 | 1147 | 6.01 | — | — | 2.83 | 14.58 |
| 0935 | 1.5 | 20.0 | 1111 | 6.09 | — | — | 2.34 | 14.80 |
| 0941 | 2.0 | 20.3 | 1105 | 6.10 | — | — | 2.14 | 14.91 |
| 0947 | 2.5 | 21.1 | 1085 | 6.10 | — | — | 2.08 | 14.95 |
| 0955 | 3.0 | 20.9 | 1077 | 6.12 | — | — | 2.47 | 15.00 |
| 1007 | 3.5 | 20.0 | 1075 | 6.16 | — | — | 2.57 | 15.03 |
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| | | | | | | | | |
| Stabilization Info: | | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- |

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☑ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: ~15.50 feet below T.O.C | Final Groundwater Depth(if applic.) 15.03 feet below T.O.C

Final Sample Turbidity: 2.57 NTUs | Ferrous Iron Concentration (if sampled): — mg/L

Comments:

## Laboratory Analytical Information

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-409 | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1004 |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: (Hand Delivery)/Fed-Ex/UPS/Other

Field Personnel Signature:

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb | AEM Job No.: 1133-1401-3 | Well No.: MW-409D
Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent | Date: 7/10/14
Comments: Cloudy - Light rain | Time In: 1456 | Time Out: 1728

**Well Information**

Well Diameter: 2.0 inches | Reference Point Marked: (Yes) No
Depth to Water: 16.53 feet below T.O.C. | Well Depth: 29.87 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
(0.16) gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

**Purging Information**

Water Column: 16.53 ft
1 Well Volume= 2.64 gal
3 Well Volume= 7.93 gal
Total Purged: 8.00 gal
Well Purge Dry (?): yes (no)

Purge Method (check): [X] Low Flow-Low Stress [ ] Micro-purge
Purge Start Time: 1516
Purge End Time: 1705
Total Time: 109 min
Purge Rate: .07 gpm

**Purging Equipment and Calibration Information**

Bailer: [ ] Teflon [ ] Poly. Pump: [ ] Grundfos [X] Peri. ID# P-6
Pump Tubing Type: [ ] Teflon [X] Teflon-Lined Poly. [ ] Polyethylene
Meter(s) Used: [X] Hanna 991300 [ ] YSI 556 [X] Lamotte 2020 ID#'s 1,5
Calibration Date/Time: 7/10/14 1000
Comments:

**Groundwater Field Parameters**

| Time | Gallons Purged | Temp. Deg. Cel | Cond. µS/cm | pH SU | Dissolved Oxygen mg/L | ORP mV | Turbidity NTUs | Water Level ft. from TOC |
|---|---|---|---|---|---|---|---|---|
| 1542 | 2.0 | 23.4 | 468 | 4.41 | — | — | 7.05 | 17.13 |
| 1606 | 4.0 | 23.2 | 459 | 4.43 | — | — | 3.79 | 17.21 |
| 1639 | 6.0 | 25.00 | 449 | 4.48 | — | — | 4.23 | 16.51 |
| 1705 | 8.0 | 24.3 | 453 | 4.56 | - | - | 5.25 | 16.86 |
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| Stabilization Info: | N/A | +/- 5% | +/- 0.1 SU | ----- | ----- | <10 NTUs | ----- | |

**Sample Collection Parameters**

Sample Collection Method (check all): [ ] Bailer [X] Straw Method [ ] Pump Tubing [ ] Vacuum Jug [ ] Other
Final Tubing/Pump Depth: ~17.50 feet below T.O.C | Final Groundwater Depth(if applic.) 16.86 feet below T.O.C
Final Sample Turbidity: 5.25 NTUs | Ferrous Iron Concentration (if sampled): — mg/L
Comments:

**Laboratory Analytical Information**

| Sample ID | Analysis | Container | Qty. | Preservative | Time Sampled |
|---|---|---|---|---|---|
| MW-409D | VOCs (Method 8260B) | 40 mL VOA Vials | 2 | HCL | 1710 |
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Sample Laboratory (circle): ACL/Xenco/AES/Other | Delivery Method: (Hand Delivery)/Fed-Ex/UPS/Other

Field Personnel Signature:

State of Florida
Department of Health, Bureau of Public Health Laboratories
This is to certify that

E87429

XENCO LABORATORIES - ATLANTA
6017 FINANCIAL DRIVE
NORCROSS, GA 30071

has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2014 Expiration Date: June 30, 2015

William H. Anderson, DHA, FACHE, Director
Division of Emergency Preparedness and Community Support
DH Form 1697, 7/04
NON-TRANSFERABLE E87429-31-07/01/2014
Supersedes all previously issued certificates

# Laboratory Scope of Accreditation



**Attachment to Certificate #: E87429-31, expiration date June 30, 2015. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| 1,1,1-Trichloroethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,1,1-Trichloroethane | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| 1,1,2,2-Tetrachloroethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,1,2,2-Tetrachloroethane | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| 1,1,2-Trichloroethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,1,2-Trichloroethane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,1-Dichloroethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,1-Dichloroethane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,1-Dichloroethylene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,1-Dichloroethylene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,1-Dichloropropene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2,3-Trichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2,3-Trichloropropane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2,4,5-Tetrachlorobenzene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,2,4-Trichlorobenzene | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 1,2,4-Trichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2,4-Trichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 1,2,4-Trimethylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2-Dibromo-3-chloropropane (DBCP) | EPA 8011 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2-Dibromo-3-chloropropane (DBCP) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | EPA 8011 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2-Dichlorobenzene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,2-Dichlorobenzene | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 1,2-Dichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| 1,2-Dichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 6/19/2003 |
| 1,2-Dichloroethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,2-Dichloroethane | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| 1,2-Dichloropropane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,2-Dichloropropane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,2-Diphenylhydrazine | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 1,3,5-Trimethylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,3,5-Trinitrobenzene (1,3,5-TNB) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,3-Dichlorobenzene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |

Laboratory Scope of Accreditation



**Attachment to Certificate #: E87429-31, expiration date June 30, 2015. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 1,3-Dichlorobenzene | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 1,3-Dichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| 1,3-Dichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 6/19/2003 |
| 1,3-Dichloropropane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 1,3-Dinitrobenzene (1,3-DNB) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,4-Dichlorobenzene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 1,4-Dichlorobenzene | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 1,4-Dichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| 1,4-Dichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 6/19/2003 |
| 1,4-Dioxane (1,4-Diethyleneoxide) | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| 1,4-Naphthoquinone | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,4-Phenylenediamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1-Methylnaphthalene | EPA 8270 | Extractable Organics | NELAP | 7/11/2008 |
| 1-Naphthylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 2,2-Dichloropropane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 2,3,4,6-Tetrachlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,4,5-T | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| 2,4,5-T | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |
| 2,4,5-Trichlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,4,6-Trichlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,4-D | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| 2,4-D | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |
| 2,4-DB | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| 2,4-DB | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| 2,4-Dichlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,4-Dimethylphenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,4-Dinitrophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,4-Dinitrotoluene (2,4-DNT) | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 2,4-Dinitrotoluene (2,4-DNT) | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,6-Dichlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2,6-Dinitrotoluene (2,6-DNT) | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 2,6-Dinitrotoluene (2,6-DNT) | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Acetylaminofluorene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 2-Butanone (Methyl ethyl ketone, MEK) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 2-Chloroethyl vinyl ether | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| 2-Chloroethyl vinyl ether | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |

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**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 2-Chloronaphthalene | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 2-Chloronaphthalene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Chlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Chlorotoluene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 2-Hexanone | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 2-Methyl-2-pentanol | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| 2-Methyl-4,6-dinitrophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Methylnaphthalene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Methylphenol (o-Cresol) | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Naphthylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 2-Nitroaniline | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 2-Nitrophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 3,3'-Dichlorobenzidine | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| 3,3'-Dichlorobenzidine | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 3,3-Dimethyl-1-butanol | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| 3,3'-Dimethylbenzidine | EPA 8270 | Extractable Organics | NELAP | 9/24/2010 |
| 3/4-Methylphenols (m/p-Cresols) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 3-Methylcholanthrene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 3-Nitroaniline | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 4,4'-DDD | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| 4,4'-DDD | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| 4,4'-DDE | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| 4,4'-DDE | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| 4,4'-DDT | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| 4,4'-DDT | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| 4-Aminobiphenyl | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 4-Bromophenyl phenyl ether | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| 4-Bromophenyl phenyl ether | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 4-Chloro-3-methylphenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 4-Chloroaniline | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 4-Chlorophenyl phenylether | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| 4-Chlorophenyl phenylether | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 4-Chlorotoluene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| 4-Nitroaniline | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| 4-Nitrophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |

Laboratory Scope of Accreditation



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**E87429**
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**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 5-Nitro-o-toluidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 7,12-Dimethylbenz(a) anthracene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Acenaphthene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Acenaphthene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Acenaphthylene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Acenaphthylene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Acetone | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Acetonitrile | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Acetophenone | EPA 8270 | Extractable Organics | NELAP | 7/11/2008 |
| Acrolein (Propenal) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Acrylonitrile | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Aldrin | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Aldrin | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Alkalinity as CaCO3 | SM 2320 B | General Chemistry | NELAP | 1/24/2008 |
| Allyl chloride (3-Chloropropene) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| alpha-BHC (alpha-Hexachlorocyclohexane) | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| alpha-BHC (alpha-Hexachlorocyclohexane) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| alpha-Chlordane | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Aluminum | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Aluminum | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Aluminum | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Aluminum | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Amenable cyanide | EPA 9010/9014 | General Chemistry | NELAP | 10/27/2004 |
| Ammonia as N | SM 4500-NH3 C | General Chemistry | NELAP | 1/24/2008 |
| Aniline | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Anthracene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Anthracene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Antimony | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Antimony | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Antimony | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Antimony | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Aroclor-1016 (PCB-1016) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Aroclor-1221 (PCB-1221) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Aroclor-1232 (PCB-1232) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Aroclor-1242 (PCB-1242) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |
| Aroclor-1248 (PCB-1248) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |

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**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Aroclor-1254 (PCB-1254) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Aroclor-1260 (PCB-1260) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Arsenic | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Arsenic | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Arsenic | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Arsenic | EPA 6020 | Metals | NELAP | 9/24/2010 |
| Atrazine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Barium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Barium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Barium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Barium | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Benzaldehyde | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Benzene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Benzene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Benzo(a)anthracene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Benzo(a)anthracene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Benzo(a)pyrene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Benzo(a)pyrene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Benzo(b)fluoranthene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Benzo(b)fluoranthene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Benzo(g,h,i)perylene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Benzo(g,h,i)perylene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Benzo(k)fluoranthene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Benzo(k)fluoranthene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Benzoic acid | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Benzyl alcohol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Beryllium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Beryllium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Beryllium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Beryllium | EPA 6020 | Metals | NELAP | 10/27/2004 |
| beta-BHC (beta-Hexachlorocyclohexane) | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| beta-BHC (beta-Hexachlorocyclohexane) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Biochemical oxygen demand | SM 5210 B | General Chemistry | NELAP | 6/6/2006 |
| Biphenyl | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| bis(2-Chloroethoxy)methane | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| bis(2-Chloroethoxy)methane | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |

# Laboratory Scope of Accreditation



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State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| bis(2-Chloroethyl) ether | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| bis(2-Chloroethyl) ether | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| bis(2-Chloroisopropyl) ether (2,2'-Oxybis(1-chloropropane)) | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| bis(2-Chloroisopropyl) ether (2,2'-Oxybis(1-chloropropane)) | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| bis(2-Ethylhexyl) phthalate (DEHP) | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| bis(2-Ethylhexyl) phthalate (DEHP) | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Boron | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Boron | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Boron | EPA 6020 | Metals | NELAP | 9/24/2010 |
| Bromide | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Bromide | EPA 9056 | General Chemistry | NELAP | 7/11/2008 |
| Bromobenzene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Bromochloromethane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Bromodichloromethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Bromodichloromethane | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Bromoform | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Bromoform | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Butyl benzyl phthalate | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Butyl benzyl phthalate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Cadmium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Cadmium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Cadmium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Cadmium | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Calcium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Calcium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Calcium | EPA 6020 | Metals | NELAP | 4/30/2004 |
| Caprolactam | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Carbazole | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Carbon disulfide | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Carbon tetrachloride | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Carbon tetrachloride | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Carbonaceous BOD (CBOD) | SM 5210 B | General Chemistry | NELAP | 10/9/2001 |
| Chemical oxygen demand | SM 5220 D | General Chemistry | NELAP | 10/9/2001 |
| Chlordane (tech.) | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Chlordane (tech.) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |

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**E87429**
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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Chloride | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Chloride | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Chlorobenzene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Chlorobenzene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Chlorobenzilate | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Chloroethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Chloroethane | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Chloroform | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Chloroform | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Chloroprene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Chromium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Chromium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Chromium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Chromium | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Chromium VI | EPA 7196 | General Chemistry | NELAP | 6/6/2006 |
| Chrysene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Chrysene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| cis-1,2-Dichloroethylene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| cis-1,3-Dichloropropene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| cis-1,3-Dichloropropene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| cis-1,4-Dichloro-2-butene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Cobalt | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Cobalt | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Cobalt | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Cobalt | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Conductivity | EPA 9050 | General Chemistry | NELAP | 4/30/2004 |
| Copper | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Copper | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Copper | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Copper | EPA 6020 | Metals | NELAP | 11/18/2004 |
| Cyclohexane | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Dalapon | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Dalapon | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| delta-BHC | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| delta-BHC | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Diallate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |

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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Dibenz(a,h)anthracene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Dibenz(a,h)anthracene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Dibenzofuran | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Dibromochloromethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Dibromochloromethane | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Dibromomethane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Dicamba | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Dicamba | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 4/30/2004 |
| Dichlorodifluoromethane | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Dichloroprop (Dichlorprop) | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Dichloroprop (Dichlorprop) | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Dieldrin | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Dieldrin | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Diesel range organics (DRO) | EPA 8015 | Extractable Organics | NELAP | 7/1/2003 |
| Diesel range organics (DRO) | MADEP-EPH (MA-EPH) | Extractable Organics | NELAP | 7/1/2003 |
| Diethyl ether | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Diethyl phthalate | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Diethyl phthalate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Di-isopropylether (DIPE) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Dimethoate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Dimethyl phthalate | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Dimethyl phthalate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Di-n-butyl phthalate | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Di-n-butyl phthalate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Di-n-octyl phthalate | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Di-n-octyl phthalate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Disulfoton | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Endosulfan I | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Endosulfan I | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Endosulfan II | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Endosulfan II | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Endosulfan sulfate | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Endosulfan sulfate | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Endrin | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |

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State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Endrin | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Endrin aldehyde | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Endrin aldehyde | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Endrin ketone | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Ethanol | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Ethyl methacrylate | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Ethyl methanesulfonate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Ethylbenzene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Ethylbenzene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Ethyl-t-butylether (ETBE) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Extractable Total Petroleum Hydrocarbons | TN-EPH | Extractable Organics | NELAP | 9/11/2013 |
| Fluoranthene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Fluoranthene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Fluorene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Fluorene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Fluoride | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Fluoride | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| gamma-Chlordane | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Gasoline range organics (GRO) | EPA 8015 | Volatile Organics | NELAP | 7/1/2003 |
| Gasoline range organics (GRO) | MADEP-VPH (MA-VPH) | Extractable Organics | NELAP | 7/1/2003 |
| Hardness | SM 2340 B | General Chemistry | NELAP | 9/24/2010 |
| Heptachlor | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Heptachlor | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Heptachlor epoxide | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Heptachlor epoxide | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Hexachlorobenzene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Hexachlorobutadiene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Hexachlorobutadiene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Hexachlorocyclopentadiene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Hexachloroethane | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Hexachloropropene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Ignitability | EPA 1010 | General Chemistry | NELAP | 7/1/2003 |
| Indeno(1,2,3-cd)pyrene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |

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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Iodomethane (Methyl iodide) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Iron | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Iron | EPA 6010 | Metals | NELAP | 9/8/2008 |
| Iron | EPA 6020 | Metals | NELAP | 9/24/2010 |
| Isobutyl alcohol (2-Methyl-1-propanol) | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Isodrin | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Isophorone | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Isophorone | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Isopropylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Isosafrole | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Kepone | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Kjeldahl nitrogen - total | SM 4500-NH3 C | General Chemistry | NELAP | 1/24/2008 |
| Lead | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Lead | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Lead | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Lead | EPA 6020 | Metals | NELAP | 10/27/2004 |
| m+p-Xylenes | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Magnesium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Magnesium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Magnesium | EPA 6020 | Metals | NELAP | 4/30/2004 |
| Manganese | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Manganese | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Manganese | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Manganese | EPA 6020 | Metals | NELAP | 10/27/2004 |
| MCPA | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| MCPA | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| MCPP | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| MCPP | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Mercury | EPA 245.1 | Metals | NELAP | 9/24/2010 |
| Mercury | EPA 7470 | Metals | NELAP | 10/9/2001 |
| Methacrylonitrile | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Methapyrilene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Methoxychlor | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 7/1/2003 |
| Methyl acetate | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Methyl bromide (Bromomethane) | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |

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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Methyl bromide (Bromomethane) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Methyl chloride (Chloromethane) | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Methyl chloride (Chloromethane) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Methyl methacrylate | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Methyl methanesulfonate | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Methyl parathion (Parathion, methyl) | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Methyl tert-butyl ether (MTBE) | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Methylcyclohexane | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Methylene chloride | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Methylene chloride | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Molybdenum | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Molybdenum | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Molybdenum | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Molybdenum | EPA 6020 | Metals | NELAP | 10/27/2004 |
| Naphthalene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Naphthalene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Naphthalene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| n-Butylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Nickel | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Nickel | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Nickel | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Nickel | EPA 6020 | Metals | NELAP | 11/18/2004 |
| Nitrate | EPA 9056 | General Chemistry | NELAP | 4/15/2004 |
| Nitrate as N | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Nitrite | EPA 9056 | General Chemistry | NELAP | 4/30/2004 |
| Nitrite as N | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Nitrobenzene | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| Nitrobenzene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| n-Nitrosodiethylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosodimethylamine | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| n-Nitroso-di-n-butylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosodi-n-propylamine | EPA 625 | Volatile Organics | NELAP | 9/24/2010 |
| n-Nitrosodi-n-propylamine | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| n-Nitrosodiphenylamine | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| n-Nitrosomethylethylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosopiperidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |

# Laboratory Scope of Accreditation



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**E87429**
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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| n-Nitrosopyrrolidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Propylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| o,o,o-Triethyl phosphorothioate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Oil & Grease | EPA 1664A | General Chemistry | NELAP | 4/15/2004 |
| Organic nitrogen | TKN minus AMMONIA | General Chemistry | NELAP | 9/24/2010 |
| Orthophosphate as P | SM 4500-P E | General Chemistry | NELAP | 7/11/2008 |
| o-Toluidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| o-Xylene | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Parathion, ethyl | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Pentachlorobenzene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Pentachloroethane | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Pentachloronitrobenzene (Quintozene) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Pentachlorophenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| pH | EPA 9040 | General Chemistry | NELAP | 7/1/2003 |
| pH | SM 4500-H+-B | General Chemistry | NELAP | 1/24/2008 |
| Phenacetin | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Phenanthrene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Phenanthrene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Phenol | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Phorate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Phosphorus, total | EPA 365.2 | General Chemistry | NELAP | 10/9/2001 |
| Phosphorus, total | SM 4500-P E | General Chemistry | NELAP | 1/24/2008 |
| p-Isopropyltoluene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Potassium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Potassium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Potassium | EPA 6020 | Metals | NELAP | 4/30/2004 |
| Pronamide (Kerb) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Propionitrile (Ethyl cyanide) | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Pyrene | EPA 625 | Extractable Organics | NELAP | 9/24/2010 |
| Pyrene | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Pyridine | EPA 8270 | Extractable Organics | NELAP | 7/1/2003 |
| Residue-filterable (TDS) | SM 2540 C | General Chemistry | NELAP | 1/24/2008 |
| Residue-nonfilterable (TSS) | SM 2540 D | General Chemistry | NELAP | 1/24/2008 |
| Residue-total | SM 2540 B | General Chemistry | NELAP | 9/11/2013 |
| Residue-volatile | EPA 160.4 | General Chemistry | NELAP | 10/9/2001 |
| Safrole | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |

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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Salinity | SM 2520 B | General Chemistry | NELAP | 9/24/2010 |
| sec-Butylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Selenium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Selenium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Selenium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Selenium | EPA 6020 | Metals | NELAP | 9/24/2010 |
| Silica as SiO2 | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Silicon | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Silver | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Silver | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Silver | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Silver | EPA 6020 | Metals | NELAP | 9/24/2010 |
| Silvex (2,4,5-TP) | EPA 615 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Silvex (2,4,5-TP) | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |
| Sodium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Sodium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Sodium | EPA 6020 | Metals | NELAP | 4/30/2004 |
| Strontium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Strontium | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Strontium | EPA 6020 | Metals | NELAP | 12/10/2010 |
| Styrene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Sulfate | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Sulfate | EPA 9056 | General Chemistry | NELAP | 4/30/2004 |
| Sulfide | SM 4500-S F | General Chemistry | NELAP | 12/8/2010 |
| T-amylmethylether (TAME) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| tert-Amyl alcohol (2-methyl-2-butanol) | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| tert-Butyl alcohol | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| tert-Butyl formate | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| tert-Butylbenzene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Tetrachloroethylene (Perchloroethylene) | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Tetrachloroethylene (Perchloroethylene) | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Tetrahydrofuran (THF) | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Thallium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Thallium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Thallium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Thallium | EPA 6020 | Metals | NELAP | 10/27/2004 |

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Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Thionazin (Zinophos) | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Tin | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Tin | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Tin | EPA 6020 | Metals | NELAP | 7/1/2005 |
| Titanium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Titanium | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Titanium | EPA 6020 | Metals | NELAP | 7/1/2005 |
| Toluene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Toluene | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Total cyanide | EPA 9010/9014 | General Chemistry | NELAP | 7/1/2003 |
| Total nitrate-nitrite | EPA 300.0 | General Chemistry | NELAP | 9/24/2010 |
| Total nitrate-nitrite | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Total nitrogen | TKN + Total nitrate-nitrite | General Chemistry | NELAP | 9/24/2010 |
| Total Petroleum Hydrocarbons (TPH) | EPA 1664A | General Chemistry | NELAP | 4/15/2004 |
| Total Petroleum Hydrocarbons (TPH) | FL-PRO | Extractable Organics | NELAP | 7/1/2003 |
| Total residual chlorine | SM 4500-Cl G | General Chemistry | NELAP | 9/24/2010 |
| Toxaphene (Chlorinated camphene) | EPA 608 | Extractable Organics | NELAP | 9/24/2010 |
| Toxaphene (Chlorinated camphene) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 6/19/2003 |
| trans-1,2-Dichloroethylene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| trans-1,2-Dichloroethylene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| trans-1,3-Dichloropropene | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| trans-1,3-Dichloropropene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| trans-1,4-Dichloro-2-butene | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Trichloroethene (Trichloroethylene) | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Trichloroethene (Trichloroethylene) | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |
| Trichlorofluoromethane | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Trichlorofluoromethane | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Un-ionized Ammonia | DEP SOP 10/03/83 | General Chemistry | NELAP | 9/24/2010 |
| Vanadium | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Vanadium | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Vanadium | EPA 6010 | Metals | NELAP | 7/1/2003 |
| Vanadium | EPA 6020 | Metals | NELAP | 9/24/2010 |
| Vinyl acetate | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Vinyl chloride | EPA 624 | Volatile Organics | NELAP | 9/24/2010 |
| Vinyl chloride | EPA 8260 | Volatile Organics | NELAP | 7/1/2003 |
| Xylene (total) | EPA 8260 | Volatile Organics | NELAP | 6/19/2003 |

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State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Non-Potable Water**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Zinc | EPA 200.7 | Metals | NELAP | 9/24/2010 |
| Zinc | EPA 200.8 | Metals | NELAP | 9/24/2010 |
| Zinc | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Zinc | EPA 6020 | Metals | NELAP | 10/27/2004 |

# Laboratory Scope of Accreditation



**Attachment to Certificate #: E87429-31, expiration date June 30, 2015. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| 1,1,1-Trichloroethane | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,1,2,2-Tetrachloroethane | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| 1,1,2-Trichloroethane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,1-Dichloroethane | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,1-Dichloroethylene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,1-Dichloropropene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2,3-Trichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2,3-Trichloropropane | EPA 8260 | Volatile Organics | NELAP | 8/1/2008 |
| 1,2,4,5-Tetrachlorobenzene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,2,4-Trichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2,4-Trichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 1,2,4-Trimethylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2-Dibromo-3-chloropropane (DBCP) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2-Dichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,2-Dichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 11/29/2001 |
| 1,2-Dichloroethane | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,2-Dichloropropane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,2-Diphenylhydrazine | EPA 8270 | Extractable Organics | NELAP | 9/24/2010 |
| 1,3,5-Trimethylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,3,5-Trinitrobenzene (1,3,5-TNB) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,3-Dichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,3-Dichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 11/29/2001 |
| 1,3-Dichloropropane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 1,3-Dinitrobenzene (1,3-DNB) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,4-Dichlorobenzene | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| 1,4-Dichlorobenzene | EPA 8270 | Extractable Organics | NELAP | 11/29/2001 |
| 1,4-Dioxane (1,4-Diethyleneoxide) | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| 1,4-Naphthoquinone | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1,4-Phenylenediamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 1-Methylnaphthalene | EPA 8270 | Extractable Organics | NELAP | 7/11/2008 |
| 1-Naphthylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 2,2-Dichloropropane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 2,3,4,6-Tetrachlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |

Laboratory Scope of Accreditation



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State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 2,4,5-T | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 6/12/2003 |
| 2,4,5-Trichlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,4,6-Trichlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,4-D | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 6/12/2003 |
| 2,4-DB | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| 2,4-Dichlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,4-Dimethylphenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,4-Dinitrophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,4-Dinitrotoluene (2,4-DNT) | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,6-Dichlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2,6-Dinitrotoluene (2,6-DNT) | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Acetylaminofluorene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 2-Butanone (Methyl ethyl ketone, MEK) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 2-Chloroethyl vinyl ether | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 2-Chloronaphthalene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Chlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Chlorotoluene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 2-Hexanone | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 2-Methyl-2-pentanol | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| 2-Methyl-4,6-dinitrophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Methylnaphthalene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Methylphenol (o-Cresol) | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Naphthylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 2-Nitroaniline | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 2-Nitrophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 3,3'-Dichlorobenzidine | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 3,3-Dimethyl-1-butanol | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| 3,3'-Dimethylbenzidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 3/4-Methylphenols (m/p-Cresols) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 3-Methylcholanthrene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 3-Nitroaniline | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 4,4'-DDD | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| 4,4'-DDE | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| 4,4'-DDT | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| 4-Aminobiphenyl | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 4-Bromophenyl phenyl ether | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |

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**E87429**
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Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| 4-Chloro-3-methylphenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 4-Chloroaniline | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 4-Chlorophenyl phenylether | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 4-Chlorotoluene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| 4-Nitroaniline | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 4-Nitrophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| 5-Nitro-o-toluidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| 7,12-Dimethylbenz(a) anthracene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Acenaphthene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Acenaphthylene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Acetone | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Acetonitrile | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Acetophenone | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Acrolein (Propenal) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Acrylonitrile | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Aldrin | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Allyl chloride (3-Chloropropene) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| alpha-BHC (alpha-Hexachlorocyclohexane) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| alpha-Chlordane | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Aluminum | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Aniline | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Anthracene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Antimony | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Aroclor-1016 (PCB-1016) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Aroclor-1221 (PCB-1221) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Aroclor-1232 (PCB-1232) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Aroclor-1242 (PCB-1242) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 6/12/2003 |
| Aroclor-1248 (PCB-1248) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 6/12/2003 |
| Aroclor-1254 (PCB-1254) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Aroclor-1260 (PCB-1260) | EPA 8082 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Arsenic | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Atrazine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Barium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Benzaldehyde | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Benzene | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |

Laboratory Scope of Accreditation



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State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Benzo(a)anthracene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Benzo(a)pyrene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Benzo(b)fluoranthene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Benzo(g,h,i)perylene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Benzo(k)fluoranthene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Benzoic acid | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Benzyl alcohol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Beryllium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| beta-BHC (beta-Hexachlorocyclohexane) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Biphenyl | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| bis(2-Chloroethoxy)methane | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| bis(2-Chloroethyl) ether | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| bis(2-Chloroisopropyl) ether (2,2'-Oxybis(1-chloropropane)) | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| bis(2-Ethylhexyl) phthalate (DEHP) | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Boron | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Bromide | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Bromobenzene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Bromochloromethane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Bromodichloromethane | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Bromoform | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Butyl benzyl phthalate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Cadmium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Calcium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Caprolactam | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Carbazole | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Carbon disulfide | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Carbon tetrachloride | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Chlordane (tech.) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 6/10/2004 |
| Chloride | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Chlorobenzene | EPA 8260 | Volatile Organics | NELAP | 9/12/2002 |
| Chlorobenzilate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Chloroethane | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Chloroform | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Chloroprene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Chromium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Chromium VI | EPA 7196 | General Chemistry | NELAP | 6/6/2006 |

# Laboratory Scope of Accreditation



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**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Chrysene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| cis-1,2-Dichloroethylene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| cis-1,3-Dichloropropene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| cis-1,4-Dichloro-2-butene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Cobalt | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Copper | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Cyanide | EPA 9014 | General Chemistry | NELAP | 9/24/2010 |
| Cyclohexane | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Dalapon | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| delta-BHC | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Diallate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Dibenz(a,h)anthracene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Dibenzofuran | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Dibromochloromethane | EPA 8260 | Volatile Organics | NELAP | 9/12/2002 |
| Dibromomethane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Dicamba | EPA 8151 | Volatile Organics | NELAP | 10/27/2004 |
| Dichlorodifluoromethane | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Dichloroprop (Dichlorprop) | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Dieldrin | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Diesel range organics (DRO) | EPA 8015 | Extractable Organics | NELAP | 10/9/2001 |
| Diesel range organics (DRO) | MADEP-EPH (MA-EPH) | Extractable Organics | NELAP | 10/9/2001 |
| Diethyl ether | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Diethyl phthalate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Di-isopropylether (DIPE) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Dimethoate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Dimethyl phthalate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Di-n-butyl phthalate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Di-n-octyl phthalate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Disulfoton | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Endosulfan I | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Endosulfan II | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Endosulfan sulfate | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Endrin | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Endrin aldehyde | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Endrin ketone | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |

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**E87429**
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Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Ethanol | EPA 8260 | Volatile Organics | NELAP | 9/24/2010 |
| Ethyl methacrylate | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Ethyl methanesulfonate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Ethylbenzene | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Ethyl-t-butylether (ETBE) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Extractable Total Petroleum Hydrocarbons | TN-EPH | Extractable Organics | NELAP | 9/11/2013 |
| Fluoranthene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Fluorene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Fluoride | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| gamma-Chlordane | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 9/24/2010 |
| Gasoline range organics (GRO) | EPA 8015 | Volatile Organics | NELAP | 10/9/2001 |
| Gasoline range organics (GRO) | MADEP-VPH (MA-VPH) | Extractable Organics | NELAP | 10/9/2001 |
| Heptachlor | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Heptachlor epoxide | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Hexachlorobenzene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Hexachlorobutadiene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Hexachlorobutadiene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Hexachlorocyclopentadiene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Hexachloroethane | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Hexachloropropene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Ignitability | EPA 1010 | General Chemistry | NELAP | 10/9/2001 |
| Indeno(1,2,3-cd)pyrene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Iodomethane (Methyl iodide) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Iron | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Isobutyl alcohol (2-Methyl-1-propanol) | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Isodrin | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Isophorone | EPA 8270 | Extractable Organics | NELAP | 8/1/2008 |
| Isopropylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Isosafrole | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Kepone | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Lead | EPA 6010 | Metals | NELAP | 10/9/2001 |
| m+p-Xylenes | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Magnesium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Manganese | EPA 6010 | Metals | NELAP | 10/9/2001 |
| MCPA | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |

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Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| MCPP | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Mercury | EPA 7471 | Metals | NELAP | 9/11/2003 |
| Methacrylonitrile | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Methapyrilene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Methoxychlor | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 10/9/2001 |
| Methyl acetate | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Methyl bromide (Bromomethane) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Methyl chloride (Chloromethane) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Methyl methacrylate | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Methyl methanesulfonate | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Methyl parathion (Parathion, methyl) | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Methyl tert-butyl ether (MTBE) | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Methylcyclohexane | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Methylene chloride | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Molybdenum | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Naphthalene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Naphthalene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| n-Butylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Nickel | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Nitrate | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Nitrite | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Nitrobenzene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| n-Nitrosodiethylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosodimethylamine | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| n-Nitroso-di-n-butylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosodi-n-propylamine | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| n-Nitrosodiphenylamine | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| n-Nitrosomethylethylamine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosopiperidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Nitrosopyrrolidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| n-Propylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| o,o,o-Triethyl phosphorothioate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| Oil & Grease | EPA 9071 | General Chemistry | NELAP | 1/6/2009 |
| o-Toluidine | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| o-Xylene | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| Parathion, ethyl | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |

# Laboratory Scope of Accreditation



**Attachment to Certificate #: E87429-31, expiration date June 30, 2015. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Pentachlorobenzene | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Pentachloroethane | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Pentachloronitrobenzene (Quintozene) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Pentachlorophenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| pH | EPA 9045 | General Chemistry | NELAP | 10/9/2001 |
| Phenacetin | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Phenanthrene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Phenol | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Phorate | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |
| p-Isopropyltoluene | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Potassium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Pronamide (Kerb) | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| Propionitrile (Ethyl cyanide) | EPA 8260 | Volatile Organics | NELAP | 10/27/2004 |
| Pyrene | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Pyridine | EPA 8270 | Extractable Organics | NELAP | 10/9/2001 |
| Reactive cyanide | Sec. 7.3 SW-846 | General Chemistry | NELAP | 10/9/2001 |
| Reactive sulfide | Sec. 7.3 SW-846 | General Chemistry | NELAP | 10/9/2001 |
| Safrole | EPA 8270 | Extractable Organics | NELAP | 9/11/2013 |
| sec-Butylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Selenium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Silver | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Silvex (2,4,5-TP) | EPA 8151 | Pesticides-Herbicides-PCB's | NELAP | 6/12/2003 |
| Sodium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Strontium | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Styrene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Sulfate | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Synthetic Precipitation Leaching Procedure | EPA 1312 | General Chemistry | NELAP | 10/27/2004 |
| T-amylmethylether (TAME) | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| tert-Amyl alcohol (2-methyl-2-butanol) | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| tert-Butyl alcohol | EPA 8260 | Volatile Organics | NELAP | 7/11/2008 |
| tert-Butyl formate | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| tert-Butylbenzene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Tetrachloroethylene (Perchloroethylene) | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Tetrahydrofuran (THF) | EPA 8260 | Volatile Organics | NELAP | 9/11/2013 |
| Thallium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Thionazin (Zinophos) | EPA 8270 | Pesticides-Herbicides-PCB's | NELAP | 9/11/2013 |

# Laboratory Scope of Accreditation



**Attachment to Certificate #: E87429-31, expiration date June 30, 2015. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87429** EPA Lab Code: **GA00046** **(770) 449-8800**

**E87429**
**XENCO Laboratories - Atlanta**
**6017 Financial Drive**
**Norcross, GA 30071**

Matrix: **Solid and Chemical Materials**

| Analyte | Method/Tech | Category | Certification Type | Effective Date |
|---|---|---|---|---|
| Tin | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Titanium | EPA 6010 | Metals | NELAP | 9/24/2010 |
| Toluene | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Total nitrate-nitrite | EPA 9056 | General Chemistry | NELAP | 9/24/2010 |
| Total Petroleum Hydrocarbons (TPH) | FL-PRO | Extractable Organics | NELAP | 10/9/2001 |
| Toxaphene (Chlorinated camphene) | EPA 8081 | Pesticides-Herbicides-PCB's | NELAP | 6/10/2004 |
| Toxicity Characteristic Leaching Procedure | EPA 1311 | General Chemistry | NELAP | 10/9/2001 |
| trans-1,2-Dichloroethylene | EPA 8260 | Volatile Organics | NELAP | 8/1/2008 |
| trans-1,3-Dichloropropene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| trans-1,4-Dichloro-2-butene | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Trichloroethene (Trichloroethylene) | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Trichlorofluoromethane | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Vanadium | EPA 6010 | Metals | NELAP | 10/9/2001 |
| Vinyl acetate | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Vinyl chloride | EPA 8260 | Volatile Organics | NELAP | 10/9/2001 |
| Xylene (total) | EPA 8260 | Volatile Organics | NELAP | 3/14/2002 |
| Zinc | EPA 6010 | Metals | NELAP | 10/9/2001 |

# Analytical Report 489203

## for

## Atlanta Environmental Management

**Project Manager: Leona Miles**

**Aramark Dekalb**

**1133-1401-3**

**17-JUL-14**

Collected By: Client


**6017 Financial Dr., Norcross, GA 30071**
**Ph:(770) 449-8800 Fax:(770) 449-5477**


Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories
Florida Testing Services, LLC

17-JUL-14

Project Manager: **Leona Miles**
**Atlanta Environmental Management**
2580 Northeast Expressway
Atlanta, GA 30345

Reference: XENCO Report No(s): **489203**
**Aramark Dekalb**
Project Address: GA

**Leona Miles**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 489203. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 489203 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Eben D. Buchanan, Jr.

**Eben Buchanan**
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***
*Certified and approved by numerous States and Agencies.*
*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

# Sample Cross Reference 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Rinsate Blank | W | 07-10-14 10:20 | | 489203-001 |
| MW-405 | W | 07-10-14 13:57 | - 14.83 | 489203-002 |
| MW-401 | W | 07-10-14 15:13 | - 8.42 | 489203-003 |
| MW-214 | W | 07-10-14 14:25 | - 15.0 | 489203-004 |
| MW-409D | W | 07-10-14 17:10 | - 17.0 | 489203-005 |
| MW-202 | W | 07-10-14 17:20 | - 15.94 | 489203-006 |
| MW-208P | W | 07-10-14 17:30 | - 8.61 | 489203-007 |
| MW-409 | W | 07-11-14 10:04 | - 15.5 | 489203-008 |
| MW-203 | W | 07-11-14 11:35 | - 18.64 | 489203-009 |
| MW-207P | W | 07-11-14 12:12 | - 12.23 | 489203-010 |
| MW-403 | W | 07-11-14 11:34 | - 17.5 | 489203-011 |
| MW-206 | W | 07-11-14 14:53 | - 9.38 | 489203-012 |
| MW-306 | W | 07-11-14 17:07 | - 8.85 | 489203-013 |
| MW-212 | W | 07-11-14 14:35 | - 17.5 | 489203-014 |
| MW-204 | W | 07-11-14 15:50 | - 14.0 | 489203-015 |
| MW-213 | W | 07-11-14 17:44 | - 14.10 | 489203-016 |
| MW-213 DUP | W | 07-11-14 17:44 | - 14.10 | 489203-017 |
| Trip Blank | W | 07-10-14 07:30 | | 489203-018 |

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **Rinsate Blank**
Lab Sample Id: 489203-001

Matrix: Water
Date Collected: 07.10.14 10.20

Date Received:07.12.14 10.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945588

Prep Method: SW5030B
% Moisture:

Date Prep: 07.14.14 14.45

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 18.21 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 18.21 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 18.21 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 18.21 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **Rinsate Blank** Matrix: Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-001 Date Collected: 07.10.14 10.20

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 18.21 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 18.21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 18.21 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 30-186 | 07.14.14 18.21 | |
| Toluene-D8 | 2037-26-5 | 102 | % | 70-130 | 07.14.14 18.21 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-405** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-002 | Date Collected: | 07.10.14 13.57 | Sample Depth: | 14.83 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.14.14 14.45 | | |
| Seq Number: | 945588 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 19.44 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 19.44 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 19.44 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 19.44 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-405**
Lab Sample Id: 489203-002
Matrix: Ground Water
Date Collected: 07.10.14 13.57
Date Received: 07.12.14 10.50
Sample Depth: 14.83

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945588
Prep Method: SW5030B
% Moisture:
Date Prep: 07.14.14 14.45

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 19.44 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 19.44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 19.44 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 19.44 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.14.14 19.44 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-401** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-003 Date Collected: 07.10.14 15.13 Sample Depth: 8.42

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 18.49 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 18.49 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 18.49 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 18.49 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-401**
Lab Sample Id: 489203-003

Matrix: Ground Water
Date Collected: 07.10.14 15.13

Date Received:07.12.14 10.50
Sample Depth: 8.42

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945588

Prep Method: SW5030B
% Moisture:

Date Prep: 07.14.14 14.45

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 18.49 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 18.49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 18.49 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 18.49 | |
| Toluene-D8 | 2037-26-5 | 94 | % | 70-130 | 07.14.14 18.49 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-214** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-004 Date Collected: 07.10.14 14.25 Sample Depth: 15.0

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 19.17 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 19.17 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 19.17 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 19.17 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-214**
Lab Sample Id: 489203-004

Matrix: Ground Water
Date Collected: 07.10.14 14.25

Date Received:07.12.14 10.50
Sample Depth: 15.0

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945588

Prep Method: SW5030B
% Moisture:

Date Prep: 07.14.14 14.45

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 19.17 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 19.17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 19.17 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 19.17 | |
| Toluene-D8 | 2037-26-5 | 98 | % | 70-130 | 07.14.14 19.17 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-409D** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-005 Date Collected: 07.10.14 17.10 Sample Depth: 17.0

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 09.57 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 09.57 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 09.57 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 09.57 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-409D** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-005 Date Collected: 07.10.14 17.10 Sample Depth: 17.0

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 09.57 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.15.14 09.57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 09.57 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 30-186 | 07.15.14 09.57 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 09.57 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-202** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-006 | Date Collected: | 07.10.14 17.20 | Sample Depth: | 15.94 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.15.14 06.48 | | |
| Seq Number: | 945672 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 10.25 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 10.25 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 10.25 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 10.25 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-202** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-006 Date Collected: 07.10.14 17.20 Sample Depth: 15.94

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 10.25 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.15.14 10.25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.15.14 10.25 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.15.14 10.25 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 10.25 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-208P** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-007 Date Collected: 07.10.14 17.30 Sample Depth: 8.61

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 20.12 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 20.12 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 20.12 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 20.12 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-208P** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-007 Date Collected: 07.10.14 17.30 Sample Depth: 8.61

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 20.12 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 20.12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 90 | % | 53-159 | 07.14.14 20.12 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 20.12 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.14.14 20.12 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-409** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-008 | Date Collected: | 07.11.14 10.04 | Sample Depth: | 15.5 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.14.14 14.45 | | |
| Seq Number: | 945588 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 20.40 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 20.40 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 20.40 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 20.40 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-409** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-008 Date Collected: 07.11.14 10.04 Sample Depth: 15.5

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **12** | 5.0 | ug/L | 07.14.14 20.40 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 20.40 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 20.40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 20.40 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 20.40 | |
| Toluene-D8 | 2037-26-5 | 98 | % | 70-130 | 07.14.14 20.40 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-203** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-009 | Date Collected: | 07.11.14 11.35 | Sample Depth: | 18.64 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.14.14 14.45 | | |
| Seq Number: | 945588 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 21.08 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 21.08 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 21.08 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 21.08 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-203**
Lab Sample Id: 489203-009

Matrix: Ground Water
Date Collected: 07.11.14 11.35

Date Received:07.12.14 10.50
Sample Depth: 18.64

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945588

Prep Method: SW5030B
% Moisture:

Date Prep: 07.14.14 14.45

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 21.08 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 21.08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 21.08 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 21.08 | |
| Toluene-D8 | 2037-26-5 | 98 | % | 70-130 | 07.14.14 21.08 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-207P** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-010 | Date Collected: | 07.11.14 12.12 | Sample Depth: | 12.23 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.14.14 14.45 | | |
| Seq Number: | 945588 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 21.36 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 21.36 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 21.36 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 21.36 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-207P** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-010 | Date Collected: | 07.11.14 12.12 | Sample Depth: | 12.23 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.14.14 14.45 | | |
| Seq Number: | 945588 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **15** | 5.0 | ug/L | 07.14.14 21.36 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 21.36 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 21.36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 98 | % | 53-159 | 07.14.14 21.36 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 21.36 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.14.14 21.36 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-403** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-011 | Date Collected: | 07.11.14 11.34 | Sample Depth: | 17.5 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.15.14 06.48 | | |
| Seq Number: | 945672 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 17.38 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 17.38 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 17.38 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 17.38 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| **cis-1,2-Dichloroethene** | 156-59-2 | **81** | 5.0 | ug/L | 07.15.14 17.38 | | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-403**
Lab Sample Id: 489203-011

Matrix: Ground Water
Date Collected: 07.11.14 11.34

Date Received:07.12.14 10.50
Sample Depth: 17.5

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945672

Prep Method: SW5030B
% Moisture:

Date Prep: 07.15.14 06.48

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 17.38 | U | 1 |
| **Vinyl chloride** | 75-01-4 | **140** | 2.0 | ug/L | 07.15.14 17.38 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 17.38 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 30-186 | 07.15.14 17.38 | |
| Toluene-D8 | 2037-26-5 | 94 | % | 70-130 | 07.15.14 17.38 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-206**
Lab Sample Id: 489203-012

Matrix: Ground Water
Date Collected: 07.11.14 14.53

Date Received:07.12.14 10.50
Sample Depth: 9.38

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945672

Prep Method: SW5030B
% Moisture:

Date Prep: 07.15.14 06.48

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 13.48 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 13.48 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 13.48 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 13.48 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-206**
Lab Sample Id: 489203-012

Matrix: Ground Water
Date Collected: 07.11.14 14.53

Date Received:07.12.14 10.50
Sample Depth: 9.38

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945672

Prep Method: SW5030B
% Moisture:

Date Prep: 07.15.14 06.48

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Methyl tert-butyl ether** | 1634-04-4 | **76** | 5.0 | ug/L | 07.15.14 13.48 | | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 13.48 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.15.14 13.48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 13.48 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 30-186 | 07.15.14 13.48 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 13.48 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-306** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-013 | Date Collected: | 07.11.14 17.07 | Sample Depth: | 8.85 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.15.14 06.48 | | |
| Seq Number: | 945672 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 15.45 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 15.45 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 15.45 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 15.45 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-306** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-013 Date Collected: 07.11.14 17.07 Sample Depth: 8.85

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **31** | 5.0 | ug/L | 07.15.14 15.45 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 15.45 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.15.14 15.45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 15.45 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 30-186 | 07.15.14 15.45 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 15.45 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-212** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-014 Date Collected: 07.11.14 14.35 Sample Depth: 17.5

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 10.53 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 10.53 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 10.53 | U | 1 |
| **Acetone** | 67-64-1 | **64** | 50 | ug/L | 07.15.14 10.53 | | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| **cis-1,2-Dichloroethene** | 156-59-2 | **180** | 5.0 | ug/L | 07.15.14 10.53 | | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-212** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-014 Date Collected: 07.11.14 14.35 Sample Depth: 17.5

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **88** | 5.0 | ug/L | 07.15.14 10.53 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| **Trichloroethene** | 79-01-6 | **15** | 5.0 | ug/L | 07.15.14 10.53 | | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 10.53 | U | 1 |
| **Vinyl chloride** | 75-01-4 | **15** | 2.0 | ug/L | 07.15.14 10.53 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 10.53 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.15.14 10.53 | |
| Toluene-D8 | 2037-26-5 | 94 | % | 70-130 | 07.15.14 10.53 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-204** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-015 | Date Collected: | 07.11.14 15.50 | Sample Depth: | 14.0 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.15.14 06.48 | | |
| Seq Number: | 945672 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 16.14 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 16.14 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 16.14 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 16.14 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-204**
Lab Sample Id: 489203-015

Matrix: Ground Water
Date Collected: 07.11.14 15.50

Date Received:07.12.14 10.50
Sample Depth: 14.0

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: MLA
Seq Number: 945672

Prep Method: SW5030B
% Moisture:

Date Prep: 07.15.14 06.48

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **7.6** | 5.0 | ug/L | 07.15.14 16.14 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 16.14 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.15.14 16.14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 16.14 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.15.14 16.14 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 16.14 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-213** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-016 Date Collected: 07.11.14 17.44 Sample Depth: 14.10

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 16.42 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 16.42 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 16.42 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 16.42 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| **cis-1,2-Dichloroethene** | 156-59-2 | **800** | 5.00 | ug/L | 07.15.14 16.42 | E | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-213** Matrix: Ground Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-016 Date Collected: 07.11.14 17.44 Sample Depth: 14.10

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **86** | 5.0 | ug/L | 07.15.14 16.42 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| **trans-1,2-Dichloroethene** | 156-60-5 | **11** | 5.0 | ug/L | 07.15.14 16.42 | | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| **Trichloroethene** | 79-01-6 | **41** | 5.0 | ug/L | 07.15.14 16.42 | | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 16.42 | U | 1 |
| **Vinyl chloride** | 75-01-4 | **9.6** | 2.0 | ug/L | 07.15.14 16.42 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 16.42 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 30-186 | 07.15.14 16.42 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 16.42 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **MW-213 DUP** | Matrix: | Ground Water | Date Received: | 07.12.14 10.50 |
| Lab Sample Id: | 489203-017 | Date Collected: | 07.11.14 17.44 | Sample Depth: | 14.10 |
| Analytical Method: | VOCs by SW-846 8260B | | | Prep Method: | SW5030B |
| Tech: | MWE | | | % Moisture: | |
| Analyst: | MLA | Date Prep: | 07.15.14 06.48 | | |
| Seq Number: | 945672 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.15.14 17.10 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.15.14 17.10 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.15.14 17.10 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.15.14 17.10 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| **cis-1,2-Dichloroethene** | 156-59-2 | **770** | 50.0 | ug/L | 07.16.14 12.30 | D | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **MW-213 DUP** | Matrix: Ground Water | Date Received:07.12.14 10.50

Lab Sample Id: 489203-017 | Date Collected: 07.11.14 17.44 | Sample Depth: 14.10

Analytical Method: VOCs by SW-846 8260B | Prep Method: SW5030B

Tech: MWE | % Moisture:

Analyst: MLA | Date Prep: 07.15.14 06.48

Seq Number: 945672

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| **Tetrachloroethene** | 127-18-4 | **79** | 5.0 | ug/L | 07.15.14 17.10 | | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| **trans-1,2-Dichloroethene** | 156-60-5 | **10** | 5.0 | ug/L | 07.15.14 17.10 | | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| **Trichloroethene** | 79-01-6 | **41** | 5.0 | ug/L | 07.15.14 17.10 | | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.15.14 17.10 | U | 1 |
| **Vinyl chloride** | 75-01-4 | **7.9** | 2.0 | ug/L | 07.15.14 17.10 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 94 | % | 53-159 | 07.15.14 17.10 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.15.14 17.10 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.15.14 17.10 | |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **Trip Blank** Matrix: Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-018 Date Collected: 07.10.14 07.30

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,1-Dichloroethane | 75-34-3 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,1-Dichloroethene | 75-35-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2,3-Trichlorobenzene | 87-61-6 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2-Dichloroethane | 107-06-2 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,2-Dichloropropane | 78-87-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| 2-Butanone (MEK) | 78-93-3 | BRL | 50 | ug/L | 07.14.14 17.53 | U | 1 |
| 2-Hexanone | 591-78-6 | BRL | 50 | ug/L | 07.14.14 17.53 | U | 1 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | BRL | 50 | ug/L | 07.14.14 17.53 | U | 1 |
| Acetone | 67-64-1 | BRL | 50 | ug/L | 07.14.14 17.53 | U | 1 |
| Benzene | 71-43-2 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Bromochloromethane | 74-97-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Bromodichloromethane | 75-27-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Bromoform | 75-25-2 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Bromomethane | 74-83-9 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Carbon disulfide | 75-15-0 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Carbon tetrachloride | 56-23-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Chlorobenzene | 108-90-7 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Chloroethane | 75-00-3 | BRL | 4.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Chloroform | 67-66-3 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Chloromethane | 74-87-3 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Cyclohexane | 110-82-7 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Dibromochloromethane | 124-48-1 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Dichlorodifluoromethane | 75-71-8 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Ethylbenzene | 100-41-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Isopropylbenzene | 98-82-8 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Methyl acetate | 79-20-9 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |

# Certificate of Analytical Results 489203

## Atlanta Environmental Management, Atlanta, GA

Aramark Dekalb

Sample Id: **Trip Blank** Matrix: Water Date Received:07.12.14 10.50

Lab Sample Id: 489203-018 Date Collected: 07.10.14 07.30

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MLA Date Prep: 07.14.14 14.45

Seq Number: 945588

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1634-04-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Methylcyclohexane | 108-87-2 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Methylene chloride | 75-09-2 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Naphthalene | 91-20-3 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| o-Xylene | 95-47-6 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Styrene | 100-42-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Tetrachloroethene | 127-18-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Toluene | 108-88-3 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Trichloroethene | 79-01-6 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Trichlorofluoromethane | 75-69-4 | BRL | 5.0 | ug/L | 07.14.14 17.53 | U | 1 |
| Vinyl chloride | 75-01-4 | BRL | 2.0 | ug/L | 07.14.14 17.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 17060-07-0 | 96 | % | 53-159 | 07.14.14 17.53 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 30-186 | 07.14.14 17.53 | |
| Toluene-D8 | 2037-26-5 | 96 | % | 70-130 | 07.14.14 17.53 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

# QC Summary 489203

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 945588 Matrix: Water Date Prep: 07.14.14

MB Sample Id: 658343-1-BLK LCS Sample Id: 658343-1-BKS LCSD Sample Id: 658343-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | <0.34 | 50 | 51 | 102 | 52 | 104 | 56-141 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,1,2,2-Tetrachloroethane | <2.0 | 50 | 51 | 102 | 49 | 98 | 64-135 | 4 | 20 | ug/L | 07.14.14 15:34 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.97 | 50 | 54 | 108 | 54 | 108 | 54-134 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 1,1,2-Trichloroethane | <0.88 | 50 | 51 | 102 | 51 | 102 | 73-123 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 1,1-Dichloroethane | <0.74 | 50 | 52 | 104 | 52 | 104 | 66-126 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 1,1-Dichloroethene | <0.98 | 50 | 52 | 104 | 53 | 106 | 65-129 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2,3-Trichlorobenzene | <2.6 | 50 | 49 | 98 | 50 | 100 | 56-146 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2,4-Trichlorobenzene | <1.3 | 50 | 50 | 100 | 50 | 100 | 62-141 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | <2.8 | 50 | 49 | 98 | 50 | 100 | 48-144 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2-Dibromoethane (EDB) | <0.79 | 50 | 51 | 102 | 52 | 104 | 70-130 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2-Dichlorobenzene | <0.73 | 50 | 49 | 98 | 49 | 98 | 77-123 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2-Dichloroethane | <0.82 | 50 | 52 | 104 | 52 | 104 | 57-137 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 1,2-Dichloropropane | <0.81 | 50 | 52 | 104 | 53 | 106 | 74-121 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,3-Dichlorobenzene | <0.74 | 50 | 50 | 100 | 49 | 98 | 79-120 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| 1,4-Dichlorobenzene | <0.59 | 50 | 49 | 98 | 49 | 98 | 77-119 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 2-Butanone (MEK) | <1.3 | 100 | 110 | 110 | 110 | 110 | 42-165 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 2-Hexanone | <2.5 | 100 | 110 | 110 | 110 | 110 | 46-157 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| 4-Methyl-2-pentanone (MIBK) | <2.2 | 100 | 100 | 100 | 100 | 100 | 54-145 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Acetone | <1.4 | 100 | 96 | 96 | 100 | 100 | 42-178 | 4 | 20 | ug/L | 07.14.14 15:34 | |
| Benzene | <0.67 | 50 | 52 | 104 | 53 | 106 | 76-119 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Bromochloromethane | <0.47 | 50 | 54 | 108 | 55 | 110 | 75-123 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Bromodichloromethane | <0.96 | 50 | 53 | 106 | 53 | 106 | 69-131 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Bromoform | <1.4 | 50 | 47 | 94 | 46 | 92 | 66-130 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Bromomethane | <2.7 | 50 | 45 | 90 | 45 | 90 | 59-141 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Carbon disulfide | <0.73 | 50 | 52 | 104 | 55 | 110 | 47-144 | 6 | 20 | ug/L | 07.14.14 15:34 | |
| Carbon tetrachloride | <0.89 | 50 | 52 | 104 | 52 | 104 | 46-155 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Chlorobenzene | <0.59 | 50 | 50 | 100 | 51 | 102 | 81-114 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Chloroethane | <0.23 | 50 | 50 | 100 | 48 | 96 | 63-133 | 4 | 20 | ug/L | 07.14.14 15:34 | |
| Chloroform | <1.4 | 50 | 52 | 104 | 53 | 106 | 68-127 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Chloromethane | <1.2 | 50 | 47 | 94 | 48 | 96 | 43-141 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| cis-1,2-Dichloroethene | <0.80 | 50 | 53 | 106 | 53 | 106 | 73-124 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| cis-1,3-Dichloropropene | <0.76 | 50 | 55 | 110 | 56 | 112 | 72-132 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Cyclohexane | <0.99 | 50 | 53 | 106 | 53 | 106 | 58-125 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Dibromochloromethane | <0.79 | 50 | 53 | 106 | 53 | 106 | 69-128 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Dichlorodifluoromethane | <0.73 | 50 | 48 | 96 | 50 | 100 | 24-153 | 4 | 20 | ug/L | 07.14.14 15:34 | |
| Ethylbenzene | <0.66 | 50 | 51 | 102 | 51 | 102 | 78-122 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Isopropylbenzene | <1.0 | 50 | 49 | 98 | 48 | 96 | 71-131 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| m,p-Xylenes | <1.2 | 100 | 100 | 100 | 100 | 100 | 76-124 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Methyl acetate | <0.15 | 50 | 54 | 108 | 54 | 108 | 65-135 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Methyl tert-butyl ether | <0.62 | 100 | 100 | 100 | 110 | 110 | 59-135 | 10 | 20 | ug/L | 07.14.14 15:34 | |
| Methylcyclohexane | <0.76 | 50 | 55 | 110 | 54 | 108 | 61-125 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Methylene chloride | <0.92 | 50 | 52 | 104 | 52 | 104 | 64-135 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Naphthalene | <4.0 | 50 | 49 | 98 | 50 | 100 | 46-159 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| o-Xylene | <0.57 | 50 | 51 | 102 | 52 | 104 | 78-124 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Styrene | <0.56 | 50 | 52 | 104 | 53 | 106 | 79-123 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Tetrachloroethene | <1.8 | 50 | 52 | 104 | 52 | 104 | 71-125 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Toluene | <0.68 | 50 | 51 | 102 | 51 | 102 | 78-118 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| trans-1,2-Dichloroethene | <0.73 | 50 | 52 | 104 | 53 | 106 | 71-126 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| trans-1,3-Dichloropropene | <0.84 | 50 | 54 | 108 | 54 | 108 | 68-131 | 0 | 20 | ug/L | 07.14.14 15:34 | |
| Trichloroethene | <0.72 | 50 | 52 | 104 | 53 | 106 | 76-118 | 2 | 20 | ug/L | 07.14.14 15:34 | |
| Trichlorofluoromethane | <0.85 | 50 | 54 | 108 | 51 | 102 | 35-153 | 6 | 20 | ug/L | 07.14.14 15:34 | |
| Vinyl chloride | <0.15 | 50 | 48 | 96 | 49 | 98 | 59-129 | 2 | 20 | ug/L | 07.14.14 15:34 | |

# QC Summary 489203

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 945588 Matrix: Water Date Prep: 07.14.14

MB Sample Id: 658343-1-BLK LCS Sample Id: 658343-1-BKS LCSD Sample Id: 658343-1-BSD

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 94 | | 96 | | 96 | | 53-159 | % | 07.14.14 15:34 |
| 4-Bromofluorobenzene | 98 | | 98 | | 98 | | 30-186 | % | 07.14.14 15:34 |
| Toluene-D8 | 96 | | 98 | | 98 | | 70-130 | % | 07.14.14 15:34 |

# QC Summary 489203

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 945672 Matrix: Water Date Prep: 07.15.14

MB Sample Id: 658377-1-BLK LCS Sample Id: 658377-1-BKS LCSD Sample Id: 658377-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | <0.34 | 50 | 50 | 100 | 51 | 102 | 56-141 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| 1,1,2,2-Tetrachloroethane | <2.0 | 50 | 48 | 96 | 48 | 96 | 64-135 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.97 | 50 | 54 | 108 | 54 | 108 | 54-134 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,1,2-Trichloroethane | <0.88 | 50 | 49 | 98 | 49 | 98 | 73-123 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,1-Dichloroethane | <0.74 | 50 | 49 | 98 | 51 | 102 | 66-126 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| 1,1-Dichloroethene | <0.98 | 50 | 51 | 102 | 52 | 104 | 65-129 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2,3-Trichlorobenzene | <2.6 | 50 | 47 | 94 | 49 | 98 | 56-146 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2,4-Trichlorobenzene | <1.3 | 50 | 48 | 96 | 49 | 98 | 62-141 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | <2.8 | 50 | 47 | 94 | 47 | 94 | 48-144 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2-Dibromoethane (EDB) | <0.79 | 50 | 50 | 100 | 50 | 100 | 70-130 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2-Dichlorobenzene | <0.73 | 50 | 48 | 96 | 48 | 96 | 77-123 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2-Dichloroethane | <0.82 | 50 | 51 | 102 | 51 | 102 | 57-137 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,2-Dichloropropane | <0.81 | 50 | 51 | 102 | 51 | 102 | 74-121 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 1,3-Dichlorobenzene | <0.74 | 50 | 48 | 96 | 49 | 98 | 79-120 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| 1,4-Dichlorobenzene | <0.59 | 50 | 48 | 96 | 48 | 96 | 77-119 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 2-Butanone (MEK) | <1.3 | 100 | 120 | 120 | 120 | 120 | 42-165 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 2-Hexanone | <2.5 | 100 | 110 | 110 | 110 | 110 | 46-157 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| 4-Methyl-2-pentanone (MIBK) | <2.2 | 100 | 100 | 100 | 100 | 100 | 54-145 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Acetone | <1.4 | 100 | 120 | 120 | 130 | 130 | 42-178 | 8 | 20 | ug/L | 07.15.14 07:38 | |
| Benzene | <0.67 | 50 | 51 | 102 | 52 | 104 | 76-119 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Bromochloromethane | <0.47 | 50 | 53 | 106 | 54 | 108 | 75-123 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Bromodichloromethane | <0.96 | 50 | 51 | 102 | 53 | 106 | 69-131 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| Bromoform | <1.4 | 50 | 46 | 92 | 45 | 90 | 66-130 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Bromomethane | <2.7 | 50 | 43 | 86 | 43 | 86 | 59-141 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Carbon disulfide | <0.73 | 50 | 49 | 98 | 52 | 104 | 47-144 | 6 | 20 | ug/L | 07.15.14 07:38 | |
| Carbon tetrachloride | <0.89 | 50 | 50 | 100 | 52 | 104 | 46-155 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| Chlorobenzene | <0.59 | 50 | 48 | 96 | 49 | 98 | 81-114 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Chloroethane | <0.23 | 50 | 44 | 88 | 45 | 90 | 63-133 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Chloroform | <1.4 | 50 | 51 | 102 | 52 | 104 | 68-127 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Chloromethane | <1.2 | 50 | 47 | 94 | 47 | 94 | 43-141 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| cis-1,2-Dichloroethene | <0.80 | 50 | 53 | 106 | 53 | 106 | 73-124 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| cis-1,3-Dichloropropene | <0.76 | 50 | 54 | 108 | 55 | 110 | 72-132 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Cyclohexane | <0.99 | 50 | 52 | 104 | 54 | 108 | 58-125 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| Dibromochloromethane | <0.79 | 50 | 51 | 102 | 51 | 102 | 69-128 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Dichlorodifluoromethane | <0.73 | 50 | 47 | 94 | 47 | 94 | 24-153 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Ethylbenzene | <0.66 | 50 | 49 | 98 | 49 | 98 | 78-122 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Isopropylbenzene | <1.0 | 50 | 48 | 96 | 47 | 94 | 71-131 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| m,p-Xylenes | <1.2 | 100 | 98 | 98 | 99 | 99 | 76-124 | 1 | 20 | ug/L | 07.15.14 07:38 | |
| Methyl acetate | <0.15 | 50 | 50 | 100 | 52 | 104 | 65-135 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| Methyl tert-butyl ether | <0.62 | 100 | 100 | 100 | 100 | 100 | 59-135 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Methylcyclohexane | <0.76 | 50 | 53 | 106 | 54 | 108 | 61-125 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Methylene chloride | <0.92 | 50 | 48 | 96 | 50 | 100 | 64-135 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| Naphthalene | <4.0 | 50 | 48 | 96 | 49 | 98 | 46-159 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| o-Xylene | <0.57 | 50 | 49 | 98 | 51 | 102 | 78-124 | 4 | 20 | ug/L | 07.15.14 07:38 | |
| Styrene | <0.56 | 50 | 51 | 102 | 52 | 104 | 79-123 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Tetrachloroethene | <1.8 | 50 | 50 | 100 | 50 | 100 | 71-125 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Toluene | <0.68 | 50 | 49 | 98 | 50 | 100 | 78-118 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| trans-1,2-Dichloroethene | <0.73 | 50 | 52 | 104 | 52 | 104 | 71-126 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| trans-1,3-Dichloropropene | <0.84 | 50 | 52 | 104 | 52 | 104 | 68-131 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Trichloroethene | <0.72 | 50 | 51 | 102 | 52 | 104 | 76-118 | 2 | 20 | ug/L | 07.15.14 07:38 | |
| Trichlorofluoromethane | <0.85 | 50 | 50 | 100 | 50 | 100 | 35-153 | 0 | 20 | ug/L | 07.15.14 07:38 | |
| Vinyl chloride | <0.15 | 50 | 48 | 96 | 47 | 94 | 59-129 | 2 | 20 | ug/L | 07.15.14 07:38 | |

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 945672 Matrix: Water Date Prep: 07.15.14
MB Sample Id: 658377-1-BLK LCS Sample Id: 658377-1-BKS LCSD Sample Id: 658377-1-BSD

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 95 | | 94 | | 94 | | 53-159 | % | 07.15.14 07:38 |
| 4-Bromofluorobenzene | 102 | | 100 | | 99 | | 30-186 | % | 07.15.14 07:38 |
| Toluene-D8 | 96 | | 96 | | 96 | | 70-130 | % | 07.15.14 07:38 |

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 945710 Matrix: Water Date Prep: 07.16.14
MB Sample Id: 658420-1-BLK LCS Sample Id: 658420-1-BKS LCSD Sample Id: 658420-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | <0.80 | 50 | 53 | 106 | 55 | 110 | 73-124 | 4 | 20 | ug/L | 07.16.14 08:00 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 98 | | 76 | | 75 | | 53-159 | % | 07.16.14 08:00 |
| 4-Bromofluorobenzene | 100 | | 106 | | 106 | | 30-186 | % | 07.16.14 08:00 |
| Toluene-D8 | 107 | | 98 | | 97 | | 70-130 | % | 07.16.14 08:00 |

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 945588 Matrix: Ground Water Date Prep: 07.14.14

Parent Sample Id: 489203-003 MS Sample Id: 489203-003 S MSD Sample Id: 489203-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | <0.34 | 50 | 52 | 104 | 52 | 104 | 63-149 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| 1,1,2,2-Tetrachloroethane | <2.0 | 50 | 49 | 98 | 50 | 100 | 58-140 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.97 | 50 | 53 | 106 | 54 | 108 | 42-156 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| 1,1,2-Trichloroethane | <0.88 | 50 | 49 | 98 | 51 | 102 | 49-140 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| 1,1-Dichloroethane | <0.74 | 50 | 52 | 104 | 52 | 104 | 67-136 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| 1,1-Dichloroethene | <0.98 | 50 | 52 | 104 | 52 | 104 | 52-141 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2,3-Trichlorobenzene | <2.6 | 50 | 49 | 98 | 49 | 98 | 50-131 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2,4-Trichlorobenzene | <1.3 | 50 | 48 | 96 | 49 | 98 | 51-125 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | <2.8 | 50 | 48 | 96 | 50 | 100 | 43-155 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2-Dibromoethane (EDB) | <0.79 | 50 | 50 | 100 | 52 | 104 | 66-136 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2-Dichlorobenzene | <0.73 | 50 | 48 | 96 | 49 | 98 | 70-124 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2-Dichloroethane | <0.82 | 50 | 51 | 102 | 53 | 106 | 71-143 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| 1,2-Dichloropropane | <0.81 | 50 | 51 | 102 | 53 | 106 | 74-125 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| 1,3-Dichlorobenzene | <0.74 | 50 | 49 | 98 | 48 | 96 | 73-123 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| 1,4-Dichlorobenzene | <0.59 | 50 | 48 | 96 | 48 | 96 | 74-116 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| 2-Butanone (MEK) | <1.3 | 100 | 110 | 110 | 110 | 110 | 43-155 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| 2-Hexanone | <2.5 | 100 | 100 | 100 | 110 | 110 | 52-148 | 10 | 20 | ug/L | 07.15.14 02:14 | |
| 4-Methyl-2-pentanone (MIBK) | <2.2 | 100 | 100 | 100 | 110 | 110 | 61-141 | 10 | 20 | ug/L | 07.15.14 02:14 | |
| Acetone | <1.4 | 100 | 100 | 100 | 99 | 99 | 40-140 | 1 | 20 | ug/L | 07.15.14 02:14 | |
| Benzene | <0.67 | 50 | 52 | 104 | 53 | 106 | 78-117 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Bromochloromethane | <0.47 | 50 | 54 | 108 | 55 | 110 | 65-127 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Bromodichloromethane | <0.96 | 50 | 52 | 104 | 53 | 106 | 71-133 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Bromoform | <1.4 | 50 | 45 | 90 | 46 | 92 | 55-129 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Bromomethane | <2.7 | 50 | 43 | 86 | 40 | 80 | 49-157 | 7 | 20 | ug/L | 07.15.14 02:14 | |
| Carbon disulfide | <0.73 | 50 | 53 | 106 | 52 | 104 | 31-142 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Carbon tetrachloride | <0.89 | 50 | 52 | 104 | 52 | 104 | 63-152 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| Chlorobenzene | <0.59 | 50 | 49 | 98 | 50 | 100 | 75-117 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Chloroethane | <0.23 | 50 | 41 | 82 | 42 | 84 | 49-147 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Chloroform | <1.4 | 50 | 52 | 104 | 53 | 106 | 67-136 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Chloromethane | <1.2 | 50 | 47 | 94 | 45 | 90 | 35-162 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| cis-1,2-Dichloroethene | <0.80 | 50 | 52 | 104 | 52 | 104 | 64-132 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| cis-1,3-Dichloropropene | <0.76 | 50 | 53 | 106 | 54 | 108 | 69-116 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Cyclohexane | <0.99 | 50 | 55 | 110 | 55 | 110 | 59-141 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| Dibromochloromethane | <0.79 | 50 | 51 | 102 | 52 | 104 | 54-144 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Dichlorodifluoromethane | <0.73 | 50 | 48 | 96 | 48 | 96 | 26-171 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| Ethylbenzene | <0.66 | 50 | 49 | 98 | 50 | 100 | 74-131 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Isopropylbenzene | <1.0 | 50 | 49 | 98 | 48 | 96 | 63-133 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| m,p-Xylenes | <1.2 | 100 | 98 | 98 | 100 | 100 | 67-134 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Methyl acetate | <0.15 | 50 | 50 | 100 | 51 | 102 | 65-135 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Methyl tert-butyl ether | <0.62 | 100 | 100 | 100 | 110 | 110 | 51-156 | 10 | 20 | ug/L | 07.15.14 02:14 | |
| Methylcyclohexane | <0.76 | 50 | 54 | 108 | 54 | 108 | 62-123 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| Methylene chloride | <0.92 | 50 | 51 | 102 | 51 | 102 | 52-165 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| Naphthalene | <4.0 | 50 | 50 | 100 | 51 | 102 | 31-151 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| o-Xylene | <0.57 | 50 | 49 | 98 | 51 | 102 | 70-125 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| Styrene | <0.56 | 50 | 50 | 100 | 52 | 104 | 42-145 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| Tetrachloroethene | <1.8 | 50 | 50 | 100 | 50 | 100 | 57-132 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| Toluene | <0.68 | 50 | 50 | 100 | 51 | 102 | 76-119 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| trans-1,2-Dichloroethene | <0.73 | 50 | 53 | 106 | 53 | 106 | 46-152 | 0 | 20 | ug/L | 07.15.14 02:14 | |
| trans-1,3-Dichloropropene | <0.84 | 50 | 50 | 100 | 52 | 104 | 60-132 | 4 | 20 | ug/L | 07.15.14 02:14 | |
| Trichloroethene | <0.72 | 50 | 52 | 104 | 53 | 106 | 77-120 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Trichlorofluoromethane | <0.85 | 50 | 48 | 96 | 47 | 94 | 47-165 | 2 | 20 | ug/L | 07.15.14 02:14 | |
| Vinyl chloride | <0.15 | 50 | 48 | 96 | 46 | 92 | 43-148 | 4 | 20 | ug/L | 07.15.14 02:14 | |

# QC Summary 489203

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 945588 Matrix: Ground Water Date Prep: 07.14.14

Parent Sample Id: 489203-003 MS Sample Id: 489203-003 S MSD Sample Id: 489203-003 SD

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 94 | | 96 | | 53-159 | % | 07.15.14 02:14 |
| 4-Bromofluorobenzene | 100 | | 96 | | 30-186 | % | 07.15.14 02:14 |
| Toluene-D8 | 96 | | 96 | | 70-130 | % | 07.15.14 02:14 |

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 945672 Matrix: Ground Water Date Prep: 07.15.14

Parent Sample Id: 489203-006 MS Sample Id: 489203-006 S MSD Sample Id: 489203-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | <0.34 | 50 | 40 | 80 | 39 | 78 | 63-149 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| 1,1,2,2-Tetrachloroethane | <2.0 | 50 | 40 | 80 | 41 | 82 | 58-140 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.97 | 50 | 43 | 86 | 41 | 82 | 42-156 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| 1,1,2-Trichloroethane | <0.88 | 50 | 40 | 80 | 41 | 82 | 49-140 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| 1,1-Dichloroethane | <0.74 | 50 | 40 | 80 | 39 | 78 | 67-136 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| 1,1-Dichloroethene | <0.98 | 50 | 41 | 82 | 41 | 82 | 52-141 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2,3-Trichlorobenzene | <2.6 | 50 | 39 | 78 | 38 | 76 | 50-131 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2,4-Trichlorobenzene | <1.3 | 50 | 39 | 78 | 38 | 76 | 51-125 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | <2.8 | 50 | 39 | 78 | 39 | 78 | 43-155 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2-Dibromoethane (EDB) | <0.79 | 50 | 41 | 82 | 43 | 86 | 66-136 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2-Dichlorobenzene | <0.73 | 50 | 39 | 78 | 40 | 80 | 70-124 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2-Dichloroethane | <0.82 | 50 | 41 | 82 | 38 | 76 | 71-143 | 8 | 20 | ug/L | 07.15.14 18:34 | |
| 1,2-Dichloropropane | <0.81 | 50 | 42 | 84 | 43 | 86 | 74-125 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| 1,3-Dichlorobenzene | <0.74 | 50 | 39 | 78 | 41 | 82 | 73-123 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| 1,4-Dichlorobenzene | <0.59 | 50 | 39 | 78 | 40 | 80 | 74-116 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| 2-Butanone (MEK) | <1.3 | 100 | 91 | 91 | 84 | 84 | 43-155 | 8 | 20 | ug/L | 07.15.14 18:34 | |
| 2-Hexanone | <2.5 | 100 | 86 | 86 | 85 | 85 | 52-148 | 1 | 20 | ug/L | 07.15.14 18:34 | |
| 4-Methyl-2-pentanone (MIBK) | <2.2 | 100 | 87 | 87 | 83 | 83 | 61-141 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| Acetone | <1.4 | 100 | 72 | 72 | 75 | 75 | 40-140 | 4 | 20 | ug/L | 07.15.14 18:34 | |
| Benzene | <0.67 | 50 | 42 | 84 | 43 | 86 | 78-117 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Bromochloromethane | <0.47 | 50 | 43 | 86 | 45 | 90 | 65-127 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| Bromodichloromethane | <0.96 | 50 | 42 | 84 | 43 | 86 | 71-133 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Bromoform | <1.4 | 50 | 37 | 74 | 38 | 76 | 55-129 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| Bromomethane | <2.7 | 50 | 28 | 56 | 28 | 56 | 49-157 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Carbon disulfide | <0.73 | 50 | 40 | 80 | 40 | 80 | 31-142 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Carbon tetrachloride | <0.89 | 50 | 41 | 82 | 41 | 82 | 63-152 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Chlorobenzene | <0.59 | 50 | 40 | 80 | 41 | 82 | 75-117 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Chloroethane | <0.23 | 50 | 28 | 56 | 28 | 56 | 49-147 | 0 | 20 | ug/L | 07.15.14 18:34 | X |
| Chloroform | <1.4 | 50 | 41 | 82 | 41 | 82 | 67-136 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Chloromethane | <1.2 | 50 | 30 | 60 | 28 | 56 | 35-162 | 7 | 20 | ug/L | 07.15.14 18:34 | |
| cis-1,2-Dichloroethene | <0.80 | 50 | 43 | 86 | 43 | 86 | 64-132 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| cis-1,3-Dichloropropene | <0.76 | 50 | 43 | 86 | 44 | 88 | 69-116 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Cyclohexane | <0.99 | 50 | 45 | 90 | 43 | 86 | 59-141 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| Dibromochloromethane | <0.79 | 50 | 41 | 82 | 42 | 84 | 54-144 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Dichlorodifluoromethane | <0.73 | 50 | 28 | 56 | 27 | 54 | 26-171 | 4 | 20 | ug/L | 07.15.14 18:34 | |
| Ethylbenzene | <0.66 | 50 | 40 | 80 | 40 | 80 | 74-131 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Isopropylbenzene | <1.0 | 50 | 39 | 78 | 40 | 80 | 63-133 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| m,p-Xylenes | <1.2 | 100 | 79 | 79 | 77 | 77 | 67-134 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| Methyl acetate | <0.15 | 50 | 40 | 80 | 39 | 78 | 65-135 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| Methyl tert-butyl ether | <0.62 | 100 | 79 | 79 | 79 | 79 | 51-156 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Methylcyclohexane | <0.76 | 50 | 45 | 90 | 46 | 92 | 62-123 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Methylene chloride | <0.92 | 50 | 39 | 78 | 38 | 76 | 52-165 | 3 | 20 | ug/L | 07.15.14 18:34 | |
| Naphthalene | <4.0 | 50 | 39 | 78 | 39 | 78 | 31-151 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| o-Xylene | <0.57 | 50 | 40 | 80 | 39 | 78 | 70-125 | 3 | 20 | ug/L | 07.15.14 18:34 | X |
| Styrene | <0.56 | 50 | 41 | 82 | 39 | 78 | 42-145 | 5 | 20 | ug/L | 07.15.14 18:34 | |
| Tetrachloroethene | 2.0 | 50 | 42 | 80 | 45 | 86 | 57-132 | 7 | 20 | ug/L | 07.15.14 18:34 | |
| Toluene | <0.68 | 50 | 40 | 80 | 41 | 82 | 76-119 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| trans-1,2-Dichloroethene | <0.73 | 50 | 42 | 84 | 42 | 84 | 46-152 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| trans-1,3-Dichloropropene | <0.84 | 50 | 41 | 82 | 41 | 82 | 60-132 | 0 | 20 | ug/L | 07.15.14 18:34 | |
| Trichloroethene | <0.72 | 50 | 42 | 84 | 43 | 86 | 77-120 | 2 | 20 | ug/L | 07.15.14 18:34 | |
| Trichlorofluoromethane | <0.85 | 50 | 27 | 54 | 29 | 58 | 47-165 | 7 | 20 | ug/L | 07.15.14 18:34 | X |
| Vinyl chloride | <0.15 | 50 | 29 | 58 | 28 | 56 | 43-148 | 4 | 20 | ug/L | 07.15.14 18:34 | |

## Atlanta Environmental Management

Aramark Dekalb

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 945672 Matrix: Ground Water Date Prep: 07.15.14
Parent Sample Id: 489203-006 MS Sample Id: 489203-006 S MSD Sample Id: 489203-006 SD

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 94 | | 84 | | 53-159 | % | 07.15.14 18:34 |
| 4-Bromofluorobenzene | 100 | | 100 | | 30-186 | % | 07.15.14 18:34 |
| Toluene-D8 | 96 | | 94 | | 70-130 | % | 07.15.14 18:34 |

**Analytical Method:** **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 945710 Matrix: Ground Water Date Prep: 07.16.14
Parent Sample Id: 489170-004 MS Sample Id: 489170-004 S MSD Sample Id: 489170-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | <0.80 | 50 | 57 | 114 | 53 | 106 | 64-132 | 7 | 20 | ug/L | 07.16.14 18:14 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-D4 | 81 | | 92 | | 53-159 | % | 07.16.14 18:14 |
| 4-Bromofluorobenzene | 103 | | 102 | | 30-186 | % | 07.16.14 18:14 |
| Toluene-D8 | 92 | | 94 | | 70-130 | % | 07.16.14 18:14 |

# XENCO LABORATORIES
## CHAIN OF CUSTODY



6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

| | |
|---|---|
| Company Name: Atlanta Environmental Management | Receiver's Initials/Temp: ____ / ____ |
| Address: 2580 North East Expressway, Atlanta GA 30345 | Custody Seal(s): ___ Y N Lab Work Order # 489203 |
| Results Sent to: HARD COPY Mailed to Leona Miles | P.O.# (if required): |
| Email address: EDD to leona-miles@aem-net.com | Field Comments / Lab Precautions: |
| Contact Phone #: 404-329-9006 Cell#: | |
| Project Name (Site): Aramark Dekalb | |
| Project Number (ID): 1133-1401-3 | Container Type: GC |
| Regulatory Program: | Chemical Preservation Code: 1 |

**Analysis Requested**

| Sampler(s): (signature) | Sampler(s): (printed) |
|---|---|
| | Neil Sargent |

| Line No. | Sample ID # | Sample Depth (Ft) | Collection Date / Time | Matrix (See below) | Composite | Grab | No. of Containers | 82608 VOC |
|---|---|---|---|---|---|---|---|---|
| 1 | rinsate Blank | NA | 7.10.14 1020 | W | | ✓ | 2 | 2 |
| 2 | mw-405 | 14.83 | 7.10.14 1357 | GW | | ✓ | 2 | 2 |
| 3 | mw-401 | 8.42 | 7.10.14 1513 | " | | ✓ | 2 | 2 |
| 4 | mw-214 | ~15.0 | 7.10.14 1425 | " | | ✓ | 2 | 2 |
| 5 | mw-409D | ~17.0 | 7.10.14 1710 | " | | ✓ | 2 | 2 |
| 6 | mw-202 | 15.94 | 7.10.14 1720 | " | | ✓ | 2 | 2 |
| 7 | mw-208P | 8.61 | 7.10.14 1730 | " | | ✓ | 2 | 2 |
| 8 | mw-409 | 15.5 | 7.11.14 1004 | " | | ✓ | 2 | 2 |
| 9 | mw-203 | 18.64 | 7.11.14 1135 | " | | ✓ | 2 | 2 |
| 10 | mw-207P | 12.23 | 7.11.14 1212 | GW | | ✓ | 2 | 2 |

| | | |
|---|---|---|
| 1) Relinquished By: | Date / Time 7-12-14 / | 2) Received By: Date / Time 07/12/14 1015 |
| 3) Relinquished By: | Date / Time | 4) Received By: Date / Time |
| 5) Relinquished By: | Date / Time | 6) Received By: Date / Time |

Delivered by: (Circle One) On Ice 3, 1, dg
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

**Turnaround Time (business days)**
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

**Matrix Guide:** (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

**Chemical Preservation Codes:** 1 = HCL / 2 = $HNO_3$ / 3 = $H_2SO_4$ / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

**Container Type:** VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

# XENCO LABORATORIES
## CHAIN OF CUSTODY



6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

| | |
|---|---|
| Company Name: Atlanta Environmental Management | Receiver's Initials/Temp: ____ / ____ |
| Address: 2580 North East Expressway Atlanta GA 30345 | Custody Seal(s): ___ Y N Lab Work Order # 489203 |
| Results Sent to: HARD COPY mailed to Leona Miles | P.O.# (if required): |
| Email address: EDD to Leona-Miles@aem-net.com | Field Comments / Lab Precautions: |
| Contact Phone #: 404-329-9006 Cell#: | |
| Project Name (Site): Aramark Dekalb | |
| Project Number (ID): 1133-1401-3 | Container Type: |
| Regulatory Program: | Chemical Preservation Code: |

**Analysis Requested**

| Sampler(s): (signature) | Sampler(s): (printed) |
|---|---|
| | Ned Sargent |

| Line No. | Sample ID # | Sample Depth (Ft) | Collection Date / Time | Matrix (See below) | Composite | Grab | No. of Containers | 8260B VOC |
|---|---|---|---|---|---|---|---|---|
| 1 | MW-403 | ~17.5 | 7.11.14 1134 | GW | | ✓ | 2 | 2 |
| 2 | MW-206 | 9.38 | 7.11.14 1453 | | | ✓ | 2 | 2 |
| 3 | MW-306 | 8.85 | 7.11.14 1707 | | | ✓ | 2 | 2 |
| 4 | MW-212 | ~~8.85~~ 17.5 NS | 7.11.14 1435 | | | ✓ | 2 | 2 |
| 5 | MW-204 | ~14.0 | 7.11.14 1550 | | | ✓ | 2 | 2 |
| 6 | MW-213 | 14.10 | 7.11.14 1744 | | | ✓ | 2 | 2 |
| 7 | MW-213 Dup | 14.10 | 7.11.14 1744 | GW | | ✓ | 2 | 2 |
| 8 | trip Blank | NA | 7.10.14 0730 | W | | ✓ | 2 | 2 |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

| | | |
|---|---|---|
| 1) Relinquished By: | Date / Time 7.12.14 | 2) Received By: | Date / Time 7/12/14 1015 | Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other |
| 3) Relinquished By: | Date / Time | 4) Received By: | Date / Time | **Turnaround Time (business days)** TAT Starts when samples are rec'd by 2PM ___10 Days ; ___5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day |
| 5) Relinquished By: | Date / Time | 6) Received By: | Date / Time | |

**Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)**

**Chemical Preservation Codes: 1 = HCL / 2 = $HNO_3$ / 3 = $H_2SO_4$ / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH**

**Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other**

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

**Client:** Atlanta Environmental Management

**Date/ Time Received:** 07/12/2014 10:50:00 AM

**Work Order #:** 489203

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : # 01**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 3.1 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6 *Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Sample instructions complete on Chain of Custody? | **Yes** |
| #9 Any missing/extra samples? | **No** |
| #10 Chain of Custody signed when relinquished/ received? | **Yes** |
| #11 Chain of Custody agrees with sample label(s)? | **Yes** |
| #12 Container label(s) legible and intact? | **Yes** |
| #13 Sample matrix/ properties agree with Chain of Custody? | **Yes** |
| #14 Samples in proper container/ bottle? | **Yes** |
| #15 Samples properly preserved? | **Yes** |
| #16 Sample container(s) intact? | **Yes** |
| #17 Sufficient sample amount for indicated test(s)? | **Yes** |
| #18 All samples received within hold time? | **Yes** |
| #19 Subcontract of sample(s)? | **No** |
| #20 VOC samples have zero headspace (less than 1/4 inch bubble)? | **Yes** |
| #21 <2 for all samples preserved with HNO3,HCL, H2SO4? | **Yes** |
| #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? | **N/A** |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: HA

PH Device/Lot#:

**Checklist completed by:** Dario Lagunas Date: 07/12/2014

**Checklist reviewed by:** Mike Kimmel Date: 07/12/2014

# ATTACHMENT B

# Historical Groundwater Analytical Results

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-201 | | | | MW-202 | | | | | | | | | | MW-202 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/22/03 | 04/06/04 | 07/14/05 | 10/11/05 | 04/22/03 | 04/05/04 | 06/09/05 | 07/14/05 | 01/25/06 | 04/12/06 | 08/15/06 | 11/08/06 | 02/08/07 | 05/30/07 | 09/18/07 | 03/06/08 | 06/05/08 | 9/9/08 | 12/01/09 | 06/02/11 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | **2.2** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **2.6 J** | <5 | **2.9 J** | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | <1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <5 | <5 | <10 | <10 | <5 | <5 | <1 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <1 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <1 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | <1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <15 | <5 | <5 | <5 | <15 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | <1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-202 | | | MW-203 | | | | | MW-203 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 07/17/13 | 01/10/14 | 07/10/14 | 04/22/03 | 04/06/04 | 01/25/06 | 04/12/06 | 04/20/06 | 09/21/06 | 11/08/06 | 02/08/07 | 05/30/07 | 09/18/07 | 12/05/07 | 03/07/08 | 06/05/08 | 09/10/08 | 12/1/09 | 06/02/11 | 07/11/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **3.5 J** | <5 | <5 | <5 | <5 | **6.0** | <5 | **2.7 J** | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **4.0 J** | **4.2 J** | **4.7 J** | **3.7 J** | <5 | <5 | **6.8** | <5 | **3.8 J** | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <4 | <4 | <4 | <5 | <5 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Cyclohexane | µg/L | BDL | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | <15 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | <50 | <50 | NA | NA | NA | NA | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 |
| Acetone | µg/L | 4,000 | <50 | <50 | <50 | NA | NA | NA | NA | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 |
| Bromomethane | µg/L | BDL | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-204 | | | | | | | | MW-204 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 05/07/03 | 04/06/04 | 07/14/05 | 10/11/05 | 01/25/06 | 04/13/06 | 08/15/06 | 11/08/06 | 02/08/07 | 04/23/07 | 05/31/07 | 09/18/07 | 12/05/07 | 3/7/08 | 6/6/08 | 9/10/08 | 8/7/09 | 12/3/09 | 06/02/11 | 07/18/13 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | **2.7 J** | **2.0 J** | **4.0 J** | **5.6** | **5.3** | **6.4** | **5.1** | **8.7** | **8.5** | **7.9** | **10** | **12** | **7.9** | **8.5** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <5 | <5 | <10 | <10 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <15 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-204 | | MW-205 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 01/10/14 | 07/11/14 | 04/07/04 | 07/14/05 | 01/25/06 | 04/13/06 | 04/20/06 | 08/15/06 | 11/09/06 | 02/08/07 | 05/31/07 | 09/19/07 | 12/05/07 | 3/6/08 | 6/9/08 | 9/9/08 | 8/7/09 | 12/3/09 | 06/01/11 | 10/08/12 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **7.9** | **7.6** | **5.7** | **7.6** | **6.8** | **18** | **23** | **19** | **20** | **22** | **25** | **22** | **15** | **25** | **22** | **23** | **26** | **22** | **21** | **23** |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **1.4** | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <4 | <4 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | <10 | <10 | <10 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | **5.9** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | <50 | NA | NA | NA | NA | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | <50 | <50 | NA | NA | NA | NA | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | BDL | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-206 | | | | | | | | MW-206 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 08/06/04 | 01/25/06 | 04/12/06 | 08/16/06 | 11/09/06 | 02/08/07 | 05/31/07 | 09/18/07 | 3/6/08 | 6/9/08 | 9/9/08 | 12/1/09 | 06/02/11 | 10/08/12 | 07/18/13 | 01/27/14 | 07/11/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <5 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | **22** | **12** | **9.6** | **10** | **8.2** | **6.5** | **7.0** | **5.6** | **6.7** | **6.2** | **13** | **10** | <5 | **23** | **11** | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-207 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 09/02/05 | 04/11/06 | 08/17/06 | 11/09/06 | 02/09/07 | 05/31/07 | 09/19/07 | 12/06/07 | 03/07/08 | 6/9/08 | 9/11/08 | 8/7/09 | 12/04/09 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **9.4** | **54** | <5 | <5 | **80** | **125** | **37** | <25 | **58** | **77** | **59** | **79** | **110** |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | **247** | <5 | <5 | <5 | **183** | <5 | <25 | **24** | **243** | **220** | **180** | **270** |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <25 | <10 | <10 | <10 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | **540** | <5 | <5 | <5 | **179** | <5 | <25 | **14** | **443** | **448** | **560** | **860** |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | **21** | <5 | <5 | <5 | <5 | <5 | <25 | <5 | **9.3** | **12** | **13** | **19** |
| Vinyl Chloride | µg/L | 2 | <2 | **90** | <2 | <2 | <2 | <2 | <2 | <10 | <2 | **16** | **22** | **35** | **72** |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | **2.9 J** | **3.3 J** | **3.1 J** | <5 | **2.4 J** | <25 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Cyclohexane | µg/L | BDL | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 |
| Acetone | µg/L | 4,000 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 |
| Bromomethane | µg/L | BDL | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
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µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-207P | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 05/15/06 | 09/21/06 | 11/09/06 | 02/08/07 | 05/30/07 | 09/19/07 | 03/06/08 | 6/5/08 | 9/10/08 | 12/3/09 | 06/02/11 | 07/18/13 | 01/16/14 | 07/11/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **10** | **13** | **10** | **9.5** | **18** | **18** | **8.7** | **13** | **19** | **11** | **9.8** | **12.0** | **5.9** | **15** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **3.4 J** | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **2.6 J** | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-208 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 09/02/05 | 04/13/06 | 08/16/06 | 11/09/06 | 02/09/07 | 04/23/07 | 05/31/07 | 5/31/07 Dup | 9/19/07 | 12/5/07 | 3/7/08 | 6/5/08 | 9/12/08 | 12/04/09 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | **14** | **14** | **16** | **23** | **34** | **43** | **37** | **87** | **100** | **127** | **155** | **248** | **330** |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Trichloroethene | µg/L | 5 | <5 | **3.4 J** | **4.2 J** | **2.5 J** | **4.8 J** | **6.0** | **4.7 J** | **3.6 J** | **2.5 J** | <5 | **4.8 J** | **4.4 J** | **3.4 J** | **9.1** |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | **13** | **13** | **6.5** | **13** | **12** | **11** | **8.8** | **6.5** | **5.9** | **9.2** | **6.6** | **6.7** | **17** |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Cyclohexane | µg/L | BDL | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Xylenes, total | µg/L | 10,000 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 |
| Acetone | µg/L | 4,000 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 |
| Bromomethane | µg/L | BDL | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-208P | | | | | | | | | | | | | MW-208P | | MW-209/209P (PZ-2) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/20/06 | 05/15/06 | 08/15/06 | 11/08/06 | 02/08/07 | 05/30/07 | 09/18/07 | 12/5/07 | 3/6/08 | 6/6/08 | 9/9/08 | 12/3/09 | 06/01/11 | 07/18/13 | 01/09/14 | 07/10/14 | 09/02/05 | 05/16/06 | 08/17/06 | 11/08/06 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | **2.2 J** | <5 | <5 | **3.0 J** | <5 | **5.2** | **8.8** | **5.3** | **8.8** | <5 | **6.8** | **9.3** | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | **2.5 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <4 | <4 | <4 | <4 | <4 | <10 | <10 | <10 | <10 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | **6.5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **2.4 J** |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA |
| Cyclohexane | µg/L | BDL | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 | <50 | NA | NA | NA |
| Acetone | µg/L | 4,000 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 | <50 | NA | NA | NA |
| Bromomethane | µg/L | BDL | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-1. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-209/209P (PZ-2) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 02/08/07 | 06/01/07 | 09/19/07 | 3/7/08 | 6/9/08 | 9/10/08 | 12/01/09 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | **3.4 J** | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 3 or 4 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-2. Summary of Groundwater Analyses for MW-210 through MW-214**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-210 | | | MW-211 | | | MW-212 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 06/03/13 | 07/18/13 | 01/09/14 | 6/4/2013 | 07/18/13 | 01/09/14 | 06/03/13 | 07/19/13 | 01/13/14 | 07/11/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | **160** | **150** | **110** | **88** |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | **21** | **24** | **17** | **15** |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | **77** | **58** | **61** | **180** |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | **5.7** | <2 | **4.8** | **15** |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | |
| 2-Butanone (MEK) | µg/L | 2,000 | <50 | <50 | <50 | <50 | <50 | <50 | **270** | **160** | **71** | <50 |
| Acetone | µg/L | 4,000 | <50 | <50 | <50 | <50 | <50 | <50 | **620** | **620** | **280** | **64** |
| Bromomethane | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
NA-not analyzed
Exceeds Type 3 or 4 RRS
*-Risk Reduction Standard based on Detection limit
NR-Not regulated

**Table B-2. Summary of Groundwater Analyses for MW-210 through MW-214**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-213 | | | | MW-214 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 06/03/13 | 07/19/13 | 01/13/14 | 07/11/14 | 06/04/13 | 07/18/13 | 01/10/14 | 07/10/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **720** | **130** | **100** | **86** | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | **140** | **54** | **49** | **41** | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | **330** | **160** | **1,000** | **800** | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | **7.0** | **11** | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | **3.5** | **6.4** | **9.6** | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | |
| 2-Butanone (MEK) | µg/L | 2,000 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
NA-not analyzed
Exceeds Type 3 or 4 RRS
*-Risk Reduction Standard based on Detection limit
NR-Not regulated

**Table B-3. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-301 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/14/06 | 08/17/06 | 09/21/06 | 11/08/06 | 12/15/06 | 02/07/07 | 04/24/07 | 06/01/07 | 09/20/07 | 12/06/07 | 03/10/08 | 06/09/08 | 9/11/08 | 12/01/09 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | **31 E** | <5 | **229** | **4,570** | **3,580** | <5 | <5 | <5 | <50 | <5 | <5 | <5 | **120** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <50 | <10 | <10 | <10 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <20 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | µg/L | BDL | NA | NA | <1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

**Table B-3. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-302 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/13/06 | 08/16/06 | 11/09/06 | 12/15/06 | 02/07/07 | 04/23/07 | 06/01/07 | 09/20/07 | 12/06/07 | 03/11/08 | 06/06/08 | 09/12/08 | 12/01/09 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **78** | <5 | <5 | <5 | <5 | <5 | **9.3** | **16** | **8.75** | **27** | <5 | **9.3** | **26** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | µg/L | 5 | **3.5 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | <10 | <10 | <10 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <15 | <5 | NA | NA | NA |
| Isopropylbenzene | µg/L | BDL | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

**Table B-3. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-303 | | | | | | | | | | MW-303 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/14/06 | 08/17/06 | 11/10/06 | 12/17/06 | 02/07/07 | 04/23/07 | 06/01/07 | 09/20/07 | 12/06/07 | 03/11/08 | 06/05/08 | 09/11/08 | 12/03/09 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **4,530** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | **257** | **37** | **650** | **7,330** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Trichloroethene | µg/L | 5 | **104** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | **310** |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <5 | <10 | <10 | <50 | <10 | <10 | <10 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | **659** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | **1,700** |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | **24** | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <20 | <2 | <2 | <2 | **20** |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | **2.7 J** | <5 | <5 | <5 | <5 | <5 | <50 | **2.6 J** | <5 | **2.2 J** | <5 |
| Ethylbenzene | µg/L | 700 | **4.4 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | **3.9 J** | <5 | **4.9 J** | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Naphthalene | µg/L | 20 | **5.5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | **76** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | **56** | **25** | **63** | <5 |
| m,p-Xylene | µg/L | 10,000 | **14** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | **14** | **6.6** | **20** | <5 |
| Xylenes, total | µg/L | 10,000 | **90** | <15 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | **70** | **31.6** | **83** | NA |
| Isopropylbenzene | µg/L | BDL | **14** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | **19** | **5.4** | **19** | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

**Table B-3. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-306 | | | | | | | | | MW-306 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/13/06 | 08/16/06 | 11/08/06 | 02/09/07 | 05/31/07 | 09/19/07 | 12/05/07 | 3/7/08 | 6/5/08 | 9/12/08 | 12/3/09 | 06/02/11 | 07/18/13 | 01/27/14 | 07/11/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | **2.9 J** | **2.7 J** | **<5** | **4.0 J** | **2.7 J** | <5 | <5 | <5 | **4.8 J** | **14** | **13** | **23** | **32** | **31** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | **1.4** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7/523 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | **3.0 J** | **2.2 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | BDL/987 | <10 | <10 | <10 | <10 | <10 | <10 | <5 | <10 | <10 | <10 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | BDL/1,020 | <5 | **2.6 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100/2,040 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | **15** | **43** | **34** | **6.8** | **26** | **17** | **33** | **7.1** | **4.1 J** | **9.3** | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | **11** | **35** | **22** | **6.1** | **23** | **13** | **28** | **6.5** | <5 | **6.2** | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | **7.5** | **4.8 J** | <5 | **3.9 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | **2.1** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | **9.6** | **4.8** | <5 | **3.9 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Isopropylbenzene | µg/L | BDL | <5 | **4.2 J** | **2.8 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | BDL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
BDL-Below the Detection Limit
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-401 | | | | | | | MW-402 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 04/19/06 | 05/15/06 | 08/15/06 | 11/09/06 | 07/17/13 | 01/09/14 | 07/10/14 | 04/20/06 | 05/16/06 | 08/15/06 | 11/09/06 | 5/31/07 | 12/01/09 | 06/01/11 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | 10* | <10 | <10 | <10 | <10 | <4 | <4 | <4 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| cis-1,2-Dichloroethene | µg/L | 70 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | <5 |
| Cyclohexane | µg/L | 5* | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | <5 | <5 | <5 | NA | NA | NA | NA | <5 | <5 | <5 | <5 | NA | NA |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | NA | NA | NA | <50 | <50 | <50 | <50 | NA | NA | NA | NA | NA | <50 |
| Acetone | µg/L | 4,000 | <50 | NA | NA | NA | <50 | <50 | <50 | <50 | NA | NA | NA | NA | NA | <50 |
| Bromomethane | µg/L | 5* | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | <5 |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-402 | | MW-403 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 07/18/13 | 01/13/14 | 04/20/06 | 05/16/06 | 08/18/06 | 11/10/06 | 12/17/06 | 02/09/07 | 06/01/07 | 09/19/07 | 12/06/07 | 03/11/08 | 06/09/08 | 09/11/08 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Chloroethane | µg/L | 10* | <4 | <4 | **67** | **14** | **11** | **35** | **29** | <10 | **26** | **23** | **42** | **15** | **17** | **40** |
| cis-1,2-Dichloroethene | µg/L | 70 | <5 | <5 | **2,600** | **1,620** | <5 | <5 | <5 | **304** | <5 | <5 | <25 | <5 | <5 | **165** |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | **14** | **9.6** | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | **1,500** | **1,660** | <2 | <2 | <2 | <2 | <2 | <2 | <10 | <2 | <2 | **108** |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | µg/L | 5* | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | **16** | **3.9 J** | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <10 | <5 | **4.8 J** | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <10 | <25 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Acetone | µg/L | 4,000 | <50 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | µg/L | 5* | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-403 | | | | | | | MW-404 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 08/07/09 | 12/01/09 | 06/02/11 | 10/08/12 | 07/19/13 | 01/13/14 | 07/11/14 | 04/20/06 | 05/16/06 | 08/17/06 | 11/08/06 | 02/08/07 | 06/01/07 | 09/18/07 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | NA | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | 10* | **23** | **19** | <4 | <10 | <4 | <4 | <4 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| cis-1,2-Dichloroethene | µg/L | 70 | **700** | **170** | **340** | **55** | **27** | **24** | **81** | **7.8** | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | **750** | **350** | **1,600** | **400** | **190** | **80** | **140** | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | NA | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | µg/L | 5* | <5 | NA | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | <15 | <5 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | NA | <50 | <50 | <50 | <50 | <50 | NA | NA | NA | NA | NA | NA | NA |
| Acetone | µg/L | 4,000 | <50 | NA | <50 | <50 | <50 | <50 | <50 | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | µg/L | 5* | <5 | NA | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | <5 | NA | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-404 | | | | | MW-405 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/05/07 | 03/06/08 | 06/05/08 | 09/12/08 | 12/01/09 | 04/20/06 | 05/16/06 | 09/21/06 | 11/08/06 | 2/9/07 | 5/30/07 | 9/18/07 | 3/7/08 | 06/05/08 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | 10* | <10 | <10 | <10 | <10 | <4 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| cis-1,2-Dichloroethene | µg/L | 70 | **4.0 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | µg/L | 5* | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | <50 | NA | NA | NA | <50 | NA | NA | NA | NA | NA | NA | NA | NA |
| Acetone | µg/L | 4,000 | NA | <50 | NA | NA | NA | <50 | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | µg/L | 5* | NA | <5 | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | NA | <5 | NA | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-405 | | | | | | MW-406 | | | | | MW-407 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 9/10/08 | 12/01/09 | 06/01/11 | 07/17/13 | 01/09/14 | 07/10/14 | 12/05/07 | 03/11/08 | 06/09/08 | 09/11/08 | 12/3/09 | 12/06/07 | 03/10/08 | 06/09/08 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **4.9 J** | <5 | <5 | <5 | <5 | <5 | **72** | **88** | **73** | **80** | **37** | <50 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **3.3 J** | <5 | <5 | <50 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| Chloroethane | µg/L | 10* | <4 | <4 | <4 | <4 | <4 | <4 | <5 | <10 | <10 | <10 | <4 | <50 | <10 | <10 |
| cis-1,2-Dichloroethene | µg/L | 70 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <20 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA |
| Cyclohexane | µg/L | 5* | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | NA | NA | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | <5 | <5 | NA | NA | NA | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | <50 | <50 | <50 | <50 | NA | NA | NA | NA | <50 | NA | NA | NA |
| Acetone | µg/L | 4,000 | NA | NA | <50 | <50 | <50 | <50 | NA | NA | NA | NA | <50 | NA | NA | NA |
| Bromomethane | µg/L | 5* | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | <5 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA | NA | NA |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-407 | | MW-408 | | | | | MW-409 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 09/11/08 | 12/1/09 | 12/06/07 | 03/11/08 | 06/05/08 | 09/11/08 | 12/4/09 | 12/05/07 | 03/10/08 | 06/06/08 | 09/09/08 | 12/3/09 | 6/1/11 | 7/18/13 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **54** | **130** | **660** | **7,240** | **9,360** | **7,760** | **1,200** | <5 | <5 | <5 | <5 | **5.8** | **5.2** | **9.7** |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | **6.3** | <50 | **102** | **285** | **340** | **120** | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | 10* | <10 | <4 | <50 | <10 | <10 | <10 | <4 | <5 | <10 | <10 | <10 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | 70 | <5 | <5 | <50 | **267** | **913** | **971** | **440** | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | <50 | <5 | **3.2 J** | **3.0 J** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | NA | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | <5 | <5 | <5 |
| Cyclohexane | µg/L | 5* | NA | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | NA | NA | <5 | <5 | <5 | NA | NA | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | NA | NA | <5 | <5 | <5 | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | NA | NA | NA | NA | <5 | NA |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | NA | NA | NA | NA | NA | NA | <50 | NA | NA | NA | NA | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | <50 | NA | NA | NA | NA | <50 | <50 | <50 |
| Bromomethane | µg/L | 5* | NA | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | NA | NA | NA | NA | NA | NA | <5 | NA | NA | NA | NA | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table B-4. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.**
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**
**Atlanta, Georgia**

| | | | MW-409 | | MW-409D | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1/10/14 | 7/11/14 | 12/05/07 | 03/10/08 | 06/06/08 | 09/09/08 | 12/3/09 | 6/1/11 | 7/18/13 | 1/10/14 | 7/10/14 |
| **Chlorinated VOCs** | | Type 3/4 RRS | | | | | | | | | | | |
| Tetrachloroethene | µg/L | 5 | **5.1** | **12** | <5 | **3.1 J** | **5.7** | **3.1 J** | <5 | <5 | <5 | <5 | <5 |
| 1,1,1-Trichloroethane | µg/L | 200 | <5 | <5 | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | µg/L | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | µg/L | 4,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroethane | µg/L | 10* | <4 | <4 | <5 | <10 | <10 | <10 | <4 | <4 | <4 | <4 | <4 |
| cis-1,2-Dichloroethene | µg/L | 70 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | µg/L | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| **Aromatic Hydrocarbons** | | | | | | | | | | | | | |
| Benzene | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | µg/L | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | µg/L | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | µg/L | 100 | <5 | <5 | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Cyclohexane | µg/L | 5* | <5 | <5 | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | µg/L | 20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o-xylene | µg/L | 10,000 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m,p-Xylene | µg/L | 10,000 | <5 | <5 | NA | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylenes, total | µg/L | 10,000 | NA | NA | <5 | NA | NA | NA | NA | <5 | NA | NA | NA |
| Isopropylbenzene | µg/L | 5* | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| **Non-Chlorinated VOCs** | | | | | | | | | | | | | |
| 2-Butanone | µg/L | 2,000 | <50 | <50 | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Acetone | µg/L | 4,000 | <50 | <50 | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 |
| Bromomethane | µg/L | 5* | <5 | <5 | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |
| Carbon Disulfide | µg/L | 4,000 | <5 | <5 | NA | NA | NA | NA | <5 | <5 | <5 | <5 | <5 |

Notes:
RRS-Risk Reduction Standard
VOCs-volatile organic compounds
µg/L- micrograms per liter
mg/L-milligrams per liter
NA-not analyzed
*-Risk Reduction Standard based on Detection limit
NR-Not regulated
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

# ATTACHMENT C

# Georgia EPD Risk Reduction Standard Approval Letter, dated February 14, 2005

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, S.E., Suite 1462 East, Atlanta, Georgia 30334-9000
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, PhD., Director
404/657-8600


February 14, 2005

Mr. Steven M. Jessee
ARAMARK c/o The Wetlands Company
1040 East 86th Street, Suite 46C
Indianapolis, IN 46240

Re: CAP Schedule and
Notice of Deficiencies dated September 23, 2004
Aramark Uniform Services, Inc.
670 DeKalb Avenue, Atlanta, Fulton County
HSI Site Number: 10704

Dear Mr. Jessee:

The Georgia Environmental Protection Division (EPD) is in receipt of Atlanta Environmental Management, Inc. (AEM) Response to Comments dated January 7, 2005 and February 4, 2005 (Responses) submitted on behalf of Aramark Uniform and Career Apparel, Inc. (Aramark). Based on EPD's review of these documents, EPD has determined the following items:

- The additional information requested by EPD's Notice of Deficiencies dated September 23, 2004 has been submitted and have been adequately addressed.

- A review of the proposed risk reduction standards, noted a few inconsistencies between tables and in the calculations. As Aramark has indicted that Aramark will comply with the Type 3 risk reduction standards for a majority of the regulated substances detected at the site, EPD has determined the soil Type 3 risk reduction standards of §391-3-19-.07 of the Rules for Hazardous Site Response (Rules) (mg/kg) are as follows:

| | |
|---|---|
| o 1,1 Dichloroethane | 400 |
| o 1,1 Dichloroethene | 0.7 |
| o 1,2 Dichloroethane | 0.5 |
| o Benzene | 0.5 |
| o Chloroethane | 0.17 |
| o Cis-1,2 dichloroethene | 0.53 |
| o Trans-1,2 dichloroethene | 10 |
| o Ethylbenzene | 70 |
| o Isopropylbenzene | 22 |
| o Naphthalene | 100 |
| o Tetrachloroethene | 0.5 |
| o Trichloroethene | 0.5 |
| o Toluene | 100 |
| o Vinyl Chloride | 0.2 |
| o Xylene | 1,000 |

Please note these concentrations are also the soil Type 1 risk reduction standards of §391-3-19-.07 of the Rules.

- Likewise, the groundwater Type 3 risk reduction standards of §391-3-19-.07 of the Rules (µg/L) are as follows:

| | |
|---|---|
| o 1,1 Dichloroethane | 4000 |
| o 1,1 Dichloroethene | 7 |
| o 1,2 Dichloroethane | 5 |
| o Benzene | 5 |
| o Chloroethane | below detection limit |
| o Cis-1,2 dichloroethene | below detection limit |
| o Trans-1,2 dichloroethene | 100 |
| o Ethylbenzene | 700 |
| o Isopropylbenzene | below detection limit |
| o Naphthalene | 20 |
| o Tetrachloroethene | 5 |
| o Trichloroethene | 5 |
| o Toluene | 1,000 |
| o Vinyl Chloride | 2 |
| o Xylene | 10,000 |

Please note these concentrations are also the groundwater Type 1 risk reduction standards of §391-3-19-.07 of the Rules.

- The groundwater Type 4 site-specific risk reduction standard of §391-3-19-.07 of the Rules (µg/L) are as follows:

| | |
|---|---|
| o 1,1 Dichloroethene | 523 |
| o Chloroethane | 987 |
| o Cis-1,2 dichloroethene | 1,020 |
| o Trans-1,2 dichloroethene | 2,040 |

- Based on the above risk reduction standards, soil and recent groundwater contamination associated with non-chlorinated regulated substances do not exceed the Type 1 risk reduction standards of §391-3-19-.07 of the Rules.

- Based on the above risk reduction standards, soil and groundwater contamination associated with chlorinated regulated substances does not comply with the Type 1 through 4 risk reduction standards of §391-3-19-.07 of the Rules.

- Soil contamination has not been delineated to background concentrations as specified in §391-3-19-.06(3)(b)(2) of the Rules in the northern portion of the Former Aramark property.

- Groundwater contamination has not been delineated to background concentrations as specified in §391-3-19-.06(3)(b)(2) of the Rules north of monitoring well MW-205 and north of monitoring well MW-109.

As soil and groundwater do not meet the risk reduction standards of §391-3-19-.06(3)(b)(2) of the Rules, EPD is approving the proposed schedule, which provides for the submittal of a corrective action plan by April 23, 2005.

EPD also conditionally approves the schedule for the additional sampling plan and after discussion with Mr. Loring Pitts of AEM, does not require the submittal of the additional sampling plan to EPD for review provided surface soil is also sampled. By eliminating this submittal for review and approval by EPD, EPD hopes this information can be included in the corrective action plan.

Please include the following items with the corrective action plan (CAP):

1) Laboratory certification for the March and April 2004 data. The laboratory certification provided with the report expired on June 30, 2003.

2) Analytical reports and laboratory certification for the July 2004 data as it was not provided with the October 28, 2004 response to comments.

3) Tables 9-1 and 9-2 should also include the sampling results obtained in 2001 for *all* regulated substances detected in groundwater and soil, respectively. Please note on these Tables that the analytical reports are located with the two supplemental notifications for the site or provide copies of the analytical reports with the CAP.

4) Reports submitted to the Underground Storage Tank Program report additional soil and groundwater analytical results along with the operation of a soil vapor extraction (SVE) system. Please revise Figure 7.1 to include the location of the former tetrachloroethylene aboveground storage tank and the location of the SVE system. Also, if possible, please indicate if the below ground equipment associated with the SVE system was removed.

5) If final soil and groundwater results are available for the period when the SVE system was decommissioned, please include those results in the CAP along with appropriately revised tables and figures.

If you have any questions regarding this matter, please contact me at (404) 657-8600.

Sincerely,

Alexandra Y. Cleary

Alexandra Y. Cleary
Unit Coordinator
Hazardous Sites Response Program

c: Loring Pitts, AEM
Stephanie Walters, ARAMRAK
File: HSI 10704
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# Georgia Department of Natural Resources

2 Martin Luther King, Jr., Dr. SE, Suite 1462 East, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Hazardous Waste Management Branch
404-657-8600


September 1, 2006

FILE COPY

Mr. Colin Cavill
Brisbane II, LLC
c/o Mr. Gerald Pouncey, Esq.
Morris, Manning and Martin, LLP
1600 Atlanta Financial Center
3343 Peachtree Road, NE
Atlanta, GA 30326

Re: Limitation of Liability
Tax Parcel Nos. 14-0020-0002-024-5 and
14-0020-0001-008-9
670 and 690 DeKalb Avenue (HSI#10704)
Prospective Purchaser Corrective Action

Dear Mr. Cavill:

The Georgia Environmental Protection Division (EPD) has completed its review of the June 22, 2006 Prospective Purchaser Compliance Status Report (PPCSR) and the August 7, 2006 PPCSR Addendum for the above referenced property. EPD has also received the analytical results for the additional soil sample that was collected at EPD's request on August 23, 2006 subsequent to our site meeting.

The PPCSR in combination with the additional soil sample complete Items 4, 5, 6 and 7 of EPD's limitation of liability letter dated October 17, 2005. EPD concurs with Brisbane II, LLC certification that soil at the property is in compliance with the Type 1 (residential) risk reduction standards specified in Section 391-3-19-.07 of the Rules for Hazardous Site Response (Rules). EPD has determined groundwater at the property does not comply with any risk reduction standard in Section 391-3-19-.07 of the Rules.

For the purpose of determining liability for continuing or future releases of regulated substances upon or from the property, the background or baseline concentrations for any and all releases will be based on the information provided in the PPCSR pursuant to Section 12-8-208(b) of the Hazardous Site Reuse and Redevelopment Act (Act).

If you have any questions regarding this limitation of liability or any of the conditions described above, please contact Bo Valli at 404-657-8600.

Sincerely,

Alexandra Y. Cleary
Unit Coordinator
Hazardous sites Response Program

c: Russ Fraze, Mactec

File: HSI File 10704
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### 6.3.2 Groundwater Criteria

Type 1-4 RRS for all constituents detected in groundwater on Site are presented below in Table 3. HSRA RRS criteria for groundwater for the detected constituents are shown compared to their highest concentrations detected on Site.

**Table 3 - Risk Reduction Standards for Groundwater**

| Regulated Substance | Highest Concentration mg/L | Location | Residential | | Non-Residential | |
|---|---|---|---|---|---|---|
| | | | Type 1 RRS Criteria, mg/L | Type 2 RRS Criteria, mg/L | Type 3 RRS Criteria, mg/L | Type 4 RRS Criteria, mg/L |
| Acetone | BDL | NA | 4.0 | 14.1 | 4.0 | 92 |
| Benzene | 0.010 | B-2 | 0.005 | 0.00448 | 0.005 | 0.0088 |
| Carbon Disulfide | BDL | NA | 4.0 | 0.329 | 4.0 | 1.70 |
| Chloroethane | 0.067 | B-2 | 0.005 | 0.294 | 0.005 | 0.987 |
| Cyclohexane | BDL | NA | 0.005 | 3.55 | 0.005 | 17.4 |
| 1,1-Dichloroethene | 0.013 | MW-109 | 0.007 | 0.108 | 0.007 | 0.548 |
| Cis-1,2-dichloroethene | 13.3 | B-2 | 0.005 | 0.156 | 0.005 | 1.02 |
| Trans-1,2-dichloroethene | 0.22 | MW-4 | 0.10 | 0.313 | 0.10 | 2.04 |
| Ethylbenzene | 0.024 | MW-103 | 0.70 | 0.436 | 0.70 | 2.3 |
| Isopropylbenzene | 0.050 | MW-103 | 0.005 | 0.20 | 0.005 | 1.01 |
| Methylcyclohexane | BDL | NA | 0.005 | 1.79 | 0.005 | 8.79 |
| Naphthalene | 0.022 | MW-103 | 0.02 | 0.00178 | 0.02 | 0.00875 |
| Tetrachloroethene | 35.0 | MW-101 | 0.005 | 0.00132 | 0.005 | 0.00382 |
| Toluene | 0.0013 | B-2 | 1.0 | 0.876 | 1.0 | 5.2 |
| 1,1,1-Trichloroethane | BDL | NA | 0.20 | 1.01 | 0.20 | 5.26 |
| Trichloroethene | 0.32 | MW-103 | 0.005 | 0.000355 | 0.005 | 0.00065 |
| Vinyl Chloride | 2.09 | B-2 | 0.002 | 0.000515 | 0.002 | 0.00158 |
| Xylenes | 0.18 | MW-3 | 10.0 | 0.0593 | 10.0 | 0.292 |

ug/l - micrograms per liter
Shaded values exceed all 4 types of Risk Reduction Standards

Based on the groundwater testing data available to MACTEC and presented herein, groundwater at the Site does not currently comply with groundwater RRS for VOCs benzene and naphthalene and for the chlorinated VOCs, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride. We note that Aramark and their consultant, AEM, are currently involved in a groundwater remediation program which will be addressed under a separate HSRA CSR prepared on behalf of Aramark as the party responsible for groundwater conditions under the HSI listing.

# ATTACHMENT D

# Quarterly Environmental Cap Inspection Reports

## SITE USE AND NON-RESIDENTIAL SOIL RRS MONITORING EVALUATION FORM

### ARAMARK, 670 DeKalb Avenue, HSI Site No. 10704

| TYPE | No. | CRITERIA RESPONSE | YES | NO |
|---|---|---|---|---|
| Land Use | 1 | Does this HSRA site meet the conditions under the approved closure? | N/A | |
| | 1a | If no to 1, provide a written explanation (attached) to the EPD within 30 days. | | |
| Exposure | 2 | Are site workers expected to be directly exposed to soils with chemical concentrations in excess of Type 2 RRS at this HSRA site in excess of 250 days per year? | | XX |
| | 2a | If yes to 2, are these same site workers expected to be exposed to soils at this HSRA site in excess of 25 years throughout their career? | | |
| Erosion | 3 | Is there evidence of soil erosion in the cap area? | | XX |
| | 3a | If yes to 3, is there evidence of erosion of these soils to off-property areas? | | |
| | 3b | If yes to 3a, are corrective measures being taken? | | |
| | 3c | If yes to 2, 3, 3a, and/or 3b, provide written explanation (attached) to the EPD within 30 days. | | |
| Integrity | 4 | Has the concrete containment changed, moved or become damaged compared to the initial configuration? | | XX |
| | 4a | If yes to 4, are corrective measures being taken? | | |
| | 4b | Is signage clearly visible and readable indicating a Type IV closure information? | | |
| | 4c | If no to 4b, are corrective measures being taken? | | |
| | 4d | Cap vegetation is adequate, properly controlled, and providing soil protection? | XX | |
| | 4e | If no to 4d, are corrective measures being taken? | | |
| Inspection | 5 | Date of inspection: **June 5, 2014** | | |
| | 5a | Name of inspector: **Victor H. Owens, PE** | | |
| | 5b | Photographs and/or diagrams showing current land use (attached) | XX | |

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| **Victor H. Owens, PE** | **Project Engineer** |
|---|---|
| NAME (Please type or print) | TITLE |
| Victor H. Owens | June 9, 2014 |
| SIGNATURE | DATE |

**ATTACHMENT**
**SITE USE AND NON-RESIDENTIAL SOIL RRS MONITORING EVALUATION FORM**

**ARAMARK, 670 DeKalb Avenue, HSI Site No. 10704**

## COMMENTS

Land Use/Item (1): No approved corrective action plan, however the Site meets the conditions in the proposed plan.

Covenant restriction plates were installed on the four faces of the block structure. See photos below.

## BASELINE PHOTOS/CONDITIONS

View looking southwest of final soil-vegetative cap on the NW corner of 670 DeKalb Avenue

View looking north of final soil-vegetative cap on the NW corner of 670 DeKalb Avenue

Southerly view from Edgewood Avenue Bridge of the final soil-vegetative cap on the NW corner of 670 DeKalb Avenue

**PHOTOS/CONDITIONS ON JUNE 9, 2014**

View north from SE Corner, vegetation cover is intact. Surface is used by contractors

View south from north face. Contractors using block wall as work surface.

View east from Beltline property. Corners are holding soil well and vegetation is healthy.

Gunby Street drainage and ramp installation activity adjacent and away from soil cap.


Covenant Plate, installed on four sides of block structure.

**SITE USE AND NON-RESIDENTIAL SOIL RRS MONITORING EVALUATION FORM**

**ARAMARK, 670 DeKalb Avenue, HSI Site No. 10704**

| TYPE | No. | CRITERIA RESPONSE | YES | NO |
|---|---|---|---|---|
| Land Use | 1 | Does this HSRA site meet the conditions under the approved closure? | **N/A** | |
| | 1a | If no to 1, provide a written explanation (attached) to the EPD within 30 days. | | |
| Exposure | 2 | Are site workers expected to be directly exposed to soils with chemical concentrations in excess of Type 2 RRS at this HSRA site in excess of 250 days per year? | | **XX** |
| | 2a | If yes to 2, are these same site workers expected to be exposed to soils at this HSRA site in excess of 25 years throughout their career? | | |
| Erosion | 3 | Is there evidence of soil erosion in the cap area? | | **XX** |
| | 3a | If yes to 3, is there evidence of erosion of these soils to off-property areas? | | |
| | 3b | If yes to 3a, are corrective measures being taken? | | |
| | 3c | If yes to 2, 3, 3a, and/or 3b, provide written explanation (attached) to the EPD within 30 days. | | |
| Integrity | 4 | Has the concrete containment changed, moved or become damaged compared to the initial configuration? | | **XX** |
| | 4a | If yes to 4, are corrective measures being taken? | | |
| | 4b | Is signage clearly visible and readable indicating a Type IV closure information? | | |
| | 4c | If no to 4b, are corrective measures being taken? | | |
| | 4d | Cap vegetation is adequate, properly controlled, and providing soil protection? | **XX** | |
| | 4e | If no to 4d, are corrective measures being taken? | | |
| Inspection | 5 | Date of inspection: **October 8, 2014** | | |
| | 5a | Name of inspector: **Victor H. Owens, PE** | | |
| | 5b | Photographs and/or diagrams showing current land use (attached) | **XX** | |

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| **Victor H. Owens, PE** | **Project Engineer** |
|---|---|
| NAME (Please type or print) | TITLE |
| Victor H Owens | October 8, 2014 |
| SIGNATURE | DATE |

**ATTACHMENT**
**SITE USE AND NON-RESIDENTIAL SOIL RRS MONITORING**
**EVALUATION FORM**

**ARAMARK, 670 DeKalb Avenue, HSI Site No. 10704**

## COMMENTS

Land Use/Item (1): No approved corrective action plan. The Site continues to meet the conditions in the proposed plan. City of Atlanta work has nearly completed for the ramp coming from Edgewood Avenue, including a field drain that conveys storm water away from the cap structure.

## INPSECTION PHOTOGRAPHS ON OCTOBER 8, 2014

View South toward DeKalb Avenue. Beltline improvement to drainage can be seen with rip rap placed in previously earthen channel.

View East toward Gunby Street. Completed City of Atlanta ramp from Edgewood Avenue, with storm, drain in background.

View South, vegetation and monitoring wells remain in good repair. Concrete block and Covenant Plates are in good condition.

View North toward Edgewood Avenue across vegetated cap. Cap cover is good and overall cap condition is good.

**BASELINE PHOTOS/CONDITIONS: APRIL 30, 2014**

View looking southwest of final soil-vegetative cap on the NW corner of 670 DeKalb Avenue

View looking north of final soil-vegetative cap on the NW corner of 670 DeKalb Avenue

Southerly view from Edgewood Avenue Bridge of the final soil-vegetative cap on the NW corner of 670 DeKalb Avenue

# ATTACHMENT E

# Revised Environmental Cap Inspection and Maintenance Plan

# ENVIRONMENTAL CAP INSPECTION AND MAINTENANCE PLAN

## 670 DeKalb Avenue
## Atlanta, Fulton County, Georgia

### Hazardous Site Inventory/Voluntary Remediation Program Site #10704

AEM Project No. 1133-1401-2

May 1, 2014
Revised October 10, 2014

Prepared For:

**Aramark Uniform & Career Apparel, LLC**
**115 North First Street**
**Burbank, California 91502**

Prepared By:

ATLANTA ENVIRONMENTAL MANAGEMENT, INC.
*Environmental Consulting, Engineering, Hydrogeologic Services*
2580 Northeast Expressway • Atlanta, Georgia 30345
Office (404) 329-9006 • Fax (404) 329-2057

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**FIGURE**



# LIST OF APPENDICES

**APPENDIX**

# SECTION 1.0
# INTRODUCTION

This plan prescribes the actions that will be taken to monitor and maintain the integrity of the vegetated protective soil cover (cap) located in the northern portion of 670 DeKalb Avenue, Atlanta, Georgia. This property is listed on the Georgia Hazardous Site Inventory as HSI # 10704, owned by Aramark Uniform & Career Apparel, LLC.

The cap is an engineering control providing a physical barrier and preventing environmental exposure, and it results in the site meeting Type 5 Risk Reduction Standards as defined in Rule 391-3-19-.07(10)(a) of the Hazardous Sites Response Act (HSRA). The cap is designed as a protective structure to prevent human and ecological exposure to chemicals that remain in soil below the cap. Therefore, this plan when implemented will ensure that the environmental cap is managed in a manner that preserves the cap structure and integrity and prevents exposure to contamination in underlying soil.

## 1.1 CAP LOCATION

The cap is located at the northwest property boundary of 670 DeKalb Avenue in Atlanta, Fulton County, Georgia (see Figure 1). The property is irregular in shape, and it is bounded to the north by Edgewood Avenue and by a multi-family residential building, on the east by commercial property, on the west by Airline Street, on the northwest by the former Norfolk-Southern railroad lines (now the Atlanta Beltline), and on the south by DeKalb Avenue. The location of the cap relative to the surrounding area and with coordinates (State Plan) for the corners of the structure is shown in Figure 2. MARTA and CSX Transportation railroad tracks, as well as CSX's Halsey Yard, are located on the opposite (south) side of DeKalb Avenue, and Edgewood Avenue is elevated to the north and above the cap (see Figure 1). The property is currently vacant and unused.

## 1.2 RESIDUAL CONTAMINATION IN SITE SOIL

Native soil underlying the cap contains regulated substances, primarily chlorinated compounds at levels exceeding 500 micrograms per kilogram (µg/kg) (see Figure 3). Refer to *Second Semiannual Progress Report, ARAMARK Uniform & Career Apparel LLC, 670 & 690 DeKalb Avenue, Atlanta, Fulton County, Georgia HSI Site No. 10704* (Progress Report) for more information regarding subsurface conditions.

# SECTION 2.0
# FUTURE SOIL MANAGEMENT PROCEDURES AND LAND USE RESTRICTIONS

There are currently no planned actions that would result in changes to the environmental cap, nor are there any activities planned to disturb either the soil cover or vegetation. Signage placed at the cap indicates that either the site owner or the Georgia Environmental Protection Division (EPD) must be contacted prior to any work in the footprint of the environmental cap.

Additionally, a restrictive covenant will be placed to indicate that "with the exception of work necessary for the maintenance, repair, or replacement of engineering controls, activities that are prohibited in the capped areas include, but are not limited to the following: drilling, digging, placement of any objects or use of any equipment which deforms or stresses the surface beyond its load bearing capability, piercing the surface with a rod, spike or similar item, bulldozing or earthwork."

# SECTION 3.0
# CAP DESCRIPTION

The environmental cap was designed to meet the engineering control requirement of providing a two-foot self-sustaining protective barrier above site soil containing residual chlorinated compounds. As shown in Figure 3, the impacted soil extends directly up to the northwest, intersecting property lines; therefore, a two-foot concrete retaining wall was constructed directly on these property lines and then was completed to encircle all known sub-soil believed to exceed 500 µg/kg.

The retaining wall was constructed by flattening the ground surface above the impacted soil and then placing pre-fabricated concrete blocks end-to-end to create a two-foot-high and two-foot-wide concrete interior soil containment structure to hold and support interior soil. The concrete blocks fit flush with each other with virtually no air gaps, and they provide for complete protective soil cover containment and protect the soil cover from erosion and other forms of damage. The interior of the concrete retaining structure was backfilled and lightly compacted, then vegetated with healthy Bermuda sod.

Based on the method of construction, it is unlikely that any natural weather event will cause damage or result in a decrease in the thickness of the protective soil cover. Each block weighs approximately 1,800 pounds and cannot be dislodged without the use of heavy construction equipment.

## 3.1 PROTECTIVE COVER SOIL

Soil for the construction of the cap was obtained from a stockpile located on the 690 DeKalb property. AEM researched historical files obtained from the former owner of the property (Brisbane II, LLC). According to Mr. Cavell, a representative of Brisbane II, LLC, the soil pile located on the 690 DeKalb Avenue property was from the Former Mead Converting Plant in Atlanta. Mr. Cavell provided a Phase I Environmental Site Assessment conducted for the Mead Converting Plant. Accordingly, based on a review of the Phase I ESA, it was found that the Mead Converting Plant was identified as a Non-HSI site. AEM subsequently performed a file review at EPD of the Non-HSI file for the Mead site. Soil samples were collected across the former Mead site. Low levels of metals (arsenic, barium, cadmium, chromium, and lead) were found in the soil, but not above HSRA Notification Concentrations. VOCs were not detected in any soil samples collected at the Mead site.

In April 2013 AEM collected seven soil samples from the stockpile and analyzed the samples for select metals. None of the metals detected exceeded notification concentrations or Type 1 risk reduction standards. Analytical results can be found in Attachment F of the *First Semiannual Progress Report*.

## 3.2 SITE CONTROLS

The property is unoccupied and without structures or utilities. No site controls are currently used to prevent unauthorized access to the property or the environmental cap. However, the cap is expected to be pedestrian-durable and virtually damage-proof from recreational pedestrians or bicyclists who use the property as a means to access DeKalb Avenue from northern pedestrian areas of the Belt Line.

### 3.2.1 Fencing and Signage

The property is unfenced and experiences limited pedestrian traffic from recreational users of the adjoining Belt Line property. Signs constructed of stainless steel have been placed on the concrete sides of the environmental cap with the following caption:

AREA SUBJECT TO ENVIRONMENTAL COVENANT & RESTRICTION
HSI# 10704
PRIOR TO DIGGING OR COMMENCING ANY OTHER LAND DISTURBANCE ACTIVITY
CALL AEM AT (404) 329-9006 OR
GEORGIA ENVIRONMENTAL PROTECTION DIVISION (404) 657-8600

### 3.2.2 Inspections

In order to verify, document, and report the sustained integrity of the protective cover, a series of inspections, consisting initially of four quarterly, then two semiannual, followed in perpetuity by annual inspections, will be performed and reported in accordance with the restrictive covenant.

Under normal circumstances the recommended sequence of environmental cap inspections would initially include up to a year of monthly inspections, with repairs if needed, to ensure the viability of the cap vegetation, and to document absence of erosion. However, the use of Bermuda sod in lieu of seeding, and the robust design (concrete block wall containment), are robust enough so that initial quarterly inspections are adequate. Future inspections will be compared to baseline conditions, as presented in the photographs included on page 2 of the Inspection Record (see Appendix 1). Inspections will be standardized to ensure consistent observation and records. The standard inspection form that will be used is provided in Appendix 1.

# SECTION 4.0
# PROTECTIVE CAP MONITORING AND MAINTENANCE

The soil contained within the concrete retaining wall, and the concrete blocks themselves, constitute the protective cap. Monitoring of the protective cap integrity will be performed as part of the scheduled inspections.

Maintenance is likely to include the removal of invasive vegetation so that root growth does not dislodge or separate the concrete blocks and potentially allow soil to wash through. Erosion of soil from within the concrete retaining wall appears to be virtually impossible because of the elevated and protected surface, and the area is not subject to typical water erosion. However, in the event that erosion occurs, or the thickness of the protective cover is believed to fall below two feet, then the soil thickness will be restored to the top of the two-foot retaining wall and the repair sodded.

## 4.1 VEGETATION MAINTENANCE

The initial vegetation cover consisting of Bermuda grass sod may in time revert to other plant materials that are equally capable of stabilizing soil within the root mass. However, unless required by City of Atlanta code or ordinance to control nuisance vegetation, no effort will be made to maintain the vegetation as Bermuda grass. However, as indicated in Section 4.0, vegetation management will consist primarily of volunteer tree control to prevent root damage to the retaining wall. In addition, plant material will be cut back as necessary during inspections (or more frequently if indicated by the inspections) to ensure that the cap integrity and signage remain visible and therefore easily verified as having full integrity, in accordance with the planned inspections.

# SECTION 5.0
# NOTIFICATION AND REPORTING

Reports of the inspected condition of the environmental cap, including repairs or maintenance as needed or performed, will be submitted to Georgia EPD on an annual basis no later than December 31 of each calendar year. The report will consist of a letter from the property owner and will include the completed and certified inspection form in Appendix 1.

In the event that the environmental cap has been found to be disturbed or damaged, notification will be sent to Georgia EPD along with documentation of the repair. In the event that the owner becomes aware of a planned disturbance of the integrity of the protective cover, then at least 90 days notice will be provided to Georgia EPD along with a description of the planned activity, the planned repairs at the conclusion of the activity, and a plan for disposition of any soil that is displaced from beneath the environmental cap. No work shall be conducted without prior consent and approval from Georgia EPD.

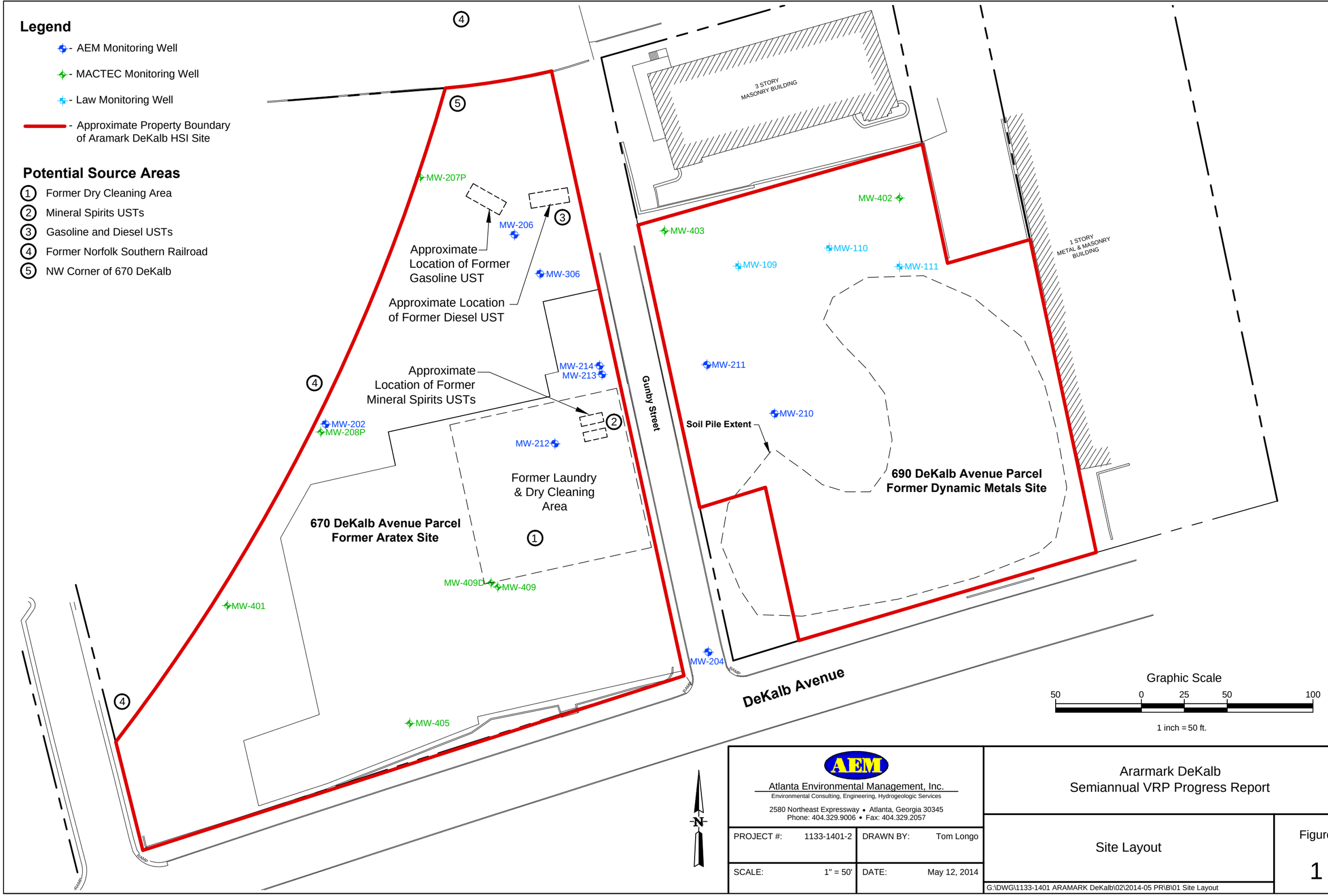
# FIGURES

## Legend

- AEM Monitoring Well
- MACTEC Monitoring Well
- Law Monitoring Well
- Approximate Property Boundary of Aramark DeKalb HSI Site

## Potential Source Areas

1. Former Dry Cleaning Area
2. Mineral Spirits USTs
3. Gasoline and Diesel USTs
4. Former Norfolk Southern Railroad
5. NW Corner of 670 DeKalb




Graphic Scale

50 0 25 50 100

1 inch = 50 ft.


AEM

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Environmental Consulting, Engineering, Hydrogeologic Services
2580 Northeast Expressway • Atlanta, Georgia 30345
Phone: 404.329.9006 • Fax: 404.329.2057

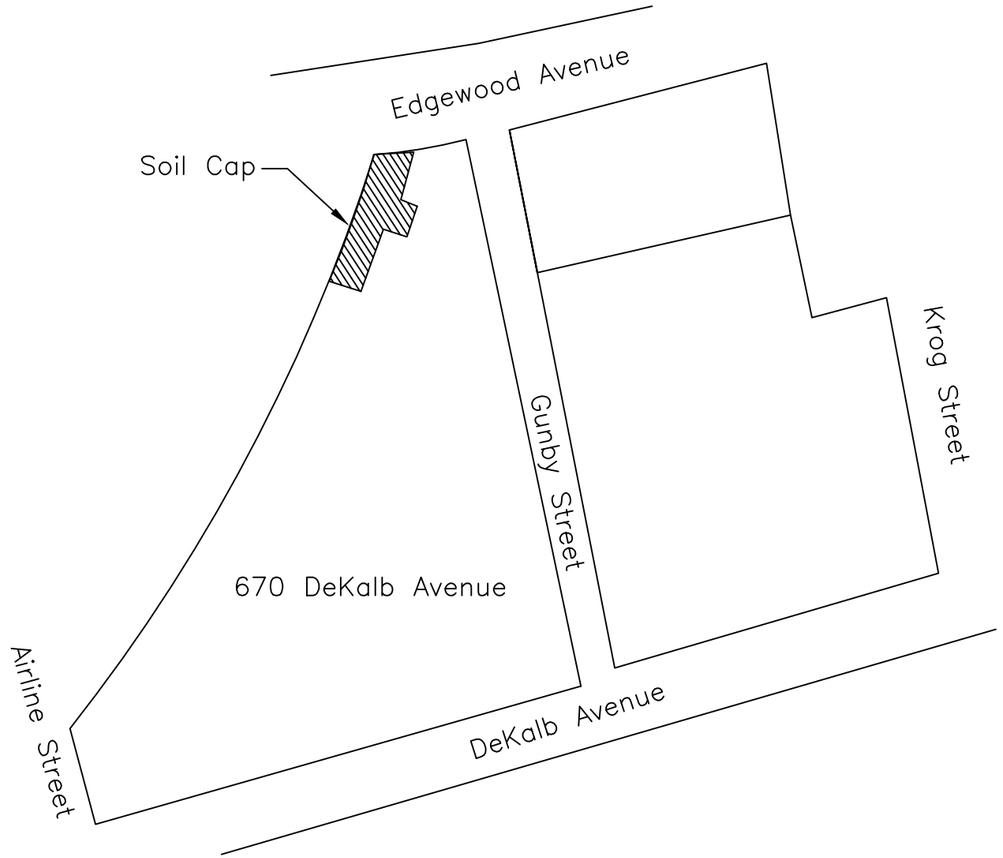

| | | | |
|---|---|---|---|
| PROJECT #: | 1133-1401-2 | DRAWN BY: | Tom Longo |
| SCALE: | 1" = 50' | DATE: | May 12, 2014 |

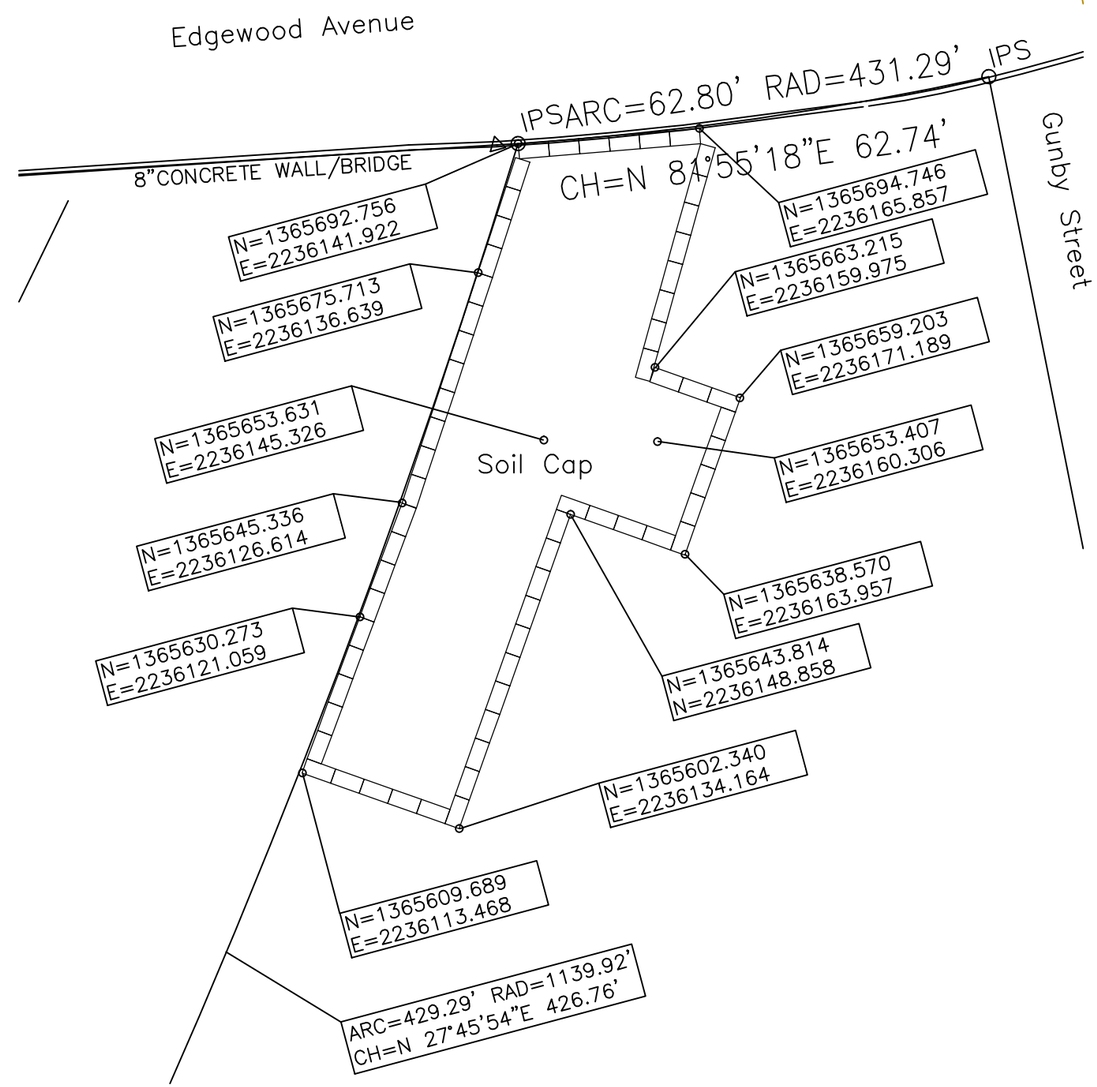
Ararmark DeKalb
Semiannual VRP Progress Report

Site Layout

Figure 1

G:\DWG\1133-1401 ARAMARK DeKalb\02\2014-05 PR\B\01 Site Layout




NOTES:
1. Coordinates shown are design and do not represent as–built conditions
2. Survey by Valentino & Associates, Inc. Dated 2/15/2010
3. Coordinates shown in state plane GA West Zone 1002, NAD83

Graphic Scale
20 0 10 20 40
1 inch = 20 ft.

N

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| | | | |
|---|---|---|---|
| PROJECT #: | 1133-1401-2 | DRAWN BY: | Tom Longo |
| SCALE: | 1:20 | DATE: | May 12, 2014 |

Arармark DeKalb
Semiannual VRP Progress Report

Two Foot Soil Cap
Location and Coordinates

Figure
2

G:\DWG\1133-1401 ARAMARK DeKalb\02\2014-05 PR\B\02 Soil Cap Survey Pts

| SB-11 | 1/31/2013 | | | | 2/1/2013 |
|---|---|---|---|---|---|
| | 0-2' | 5-6' | 10-12' | 14-15' | 18-20' |
| Tetrachloroethene | **14,800** | **3,400** | **87,600** | **1,320** | <6.19 |
| Trichloroethene | <294 | <349 | **7,820** | **10,400** | <6.19 |
| cis-1,2-Dichloroethene | <294 | <349 | **3,890** | **5,250** | **6.94** |
| trans-1,2-Dichloroethene | <294 | <349 | <395 | **13.6** | <6.19 |

| SB-12 | 2/1/2013 | | | |
|---|---|---|---|---|
| | 0-2' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **17.5** | **6,340** | **52,200** | **18.5** |
| Trichloroethene | <6.40 | <253 | **4,920** | **10.8** |
| cis-1,2-Dichloroethene | <6.40 | <253 | **941** | **6.73** |
| trans-1,2-Dichloroethene | <6.40 | <253 | <323 | <5.06 |

| SB-9 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **3,250** | **39.6** | <5.96 | <7.17 |
| Trichloroethene | <378 | <6.41 | <5.96 | <7.17 |
| cis-1,2-Dichloroethene | <378 | <6.41 | <5.96 | <7.17 |
| trans-1,2-Dichloroethene | <378 | <6.41 | <5.96 | <7.17 |

| SB-1 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | <5.29 | **9.96** | <5.72 | <5.14 |
| Trichloroethene | <5.29 | <4.78 | <5.72 | <5.14 |
| cis-1,2-Dichloroethene | <5.29 | <4.78 | **24.5** | <5.14 |
| trans-1,2-Dichloroethene | <5.29 | <4.78 | <5.72 | <5.14 |

| SB-10 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **903** | **20,900** | **9,900** | <4.82 |
| Trichloroethene | <258 | **540** | **2,900** | **9.64** |
| cis-1,2-Dichloroethene | <258 | <410 | **3,070** | <4.82 |
| trans-1,2-Dichloroethene | <258 | <410 | <310 | <4.82 |

| SB-2 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | <4.24 | **18.5** | **38.5** | <5.49 |
| Trichloroethene | <4.24 | <5.2 | <4.61 | <5.49 |
| cis-1,2-Dichloroethene | <4.24 | <5.2 | <4.61 | <5.49 |
| trans-1,2-Dichloroethene | <4.24 | <5.2 | <4.61 | <5.49 |

| SB-8 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 0-2' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **10.1** | <5.77 | <5.60 | <6.77 |
| Trichloroethene | <6.27 | <5.77 | <5.60 | <6.77 |
| cis-1,2-Dichloroethene | <6.27 | <5.77 | <5.60 | <6.77 |
| trans-1,2-Dichloroethene | <6.27 | <5.77 | <5.60 | <6.77 |

| SB-3 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | <6.93 | **7.90** | **5.19** | **9.62** |
| Trichloroethene | <6.93 | <4.48 | <4.22 | <6.06 |
| cis-1,2-Dichloroethene | <6.93 | <4.48 | <4.22 | <6.06 |
| trans-1,2-Dichloroethene | <6.93 | <4.48 | <4.22 | <6.06 |

| SB-7 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **8,240** | **49,800** | **23.0** | <5.44 |
| Trichloroethene | **291** | **2,170** | **5.93** | <5.44 |
| cis-1,2-Dichloroethene | <224 | **859** | **5.67** | <5.44 |
| trans-1,2-Dichloroethene | <224 | <247 | <4.59 | <5.44 |

| SB-4 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **9,080** | **8.42** | **5.50** | **10.2** |
| Trichloroethene | **99.2** | <5.24 | <5.32 | <6.23 |
| cis-1,2-Dichloroethene | <9.53 | <5.24 | <5.32 | <6.23 |
| trans-1,2-Dichloroethene | <9.53 | <5.24 | <5.32 | <6.23 |

| SB-6 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | NSR | **9,950** | **2,410** | **11.0** |
| Trichloroethene | NSR | <313 | <386 | <5.37 |
| cis-1,2-Dichloroethene | NSR | <313 | <386 | <5.37 |
| trans-1,2-Dichloroethene | NSR | <313 | <386 | <5.37 |

| SB-13 | 2/1/2013 | |
|---|---|---|
| | 2-4' | 6-8' |
| Tetrachloroethene | <4.91 | <4.13 |
| Trichloroethene | <4.91 | <4.13 |
| cis-1,2-Dichloroethene | <4.91 | <4.13 |
| trans-1,2-Dichloroethene | <4.91 | <4.13 |

| SB-16 | 2/1/2013 | | |
|---|---|---|---|
| | 2-4' | 6-8' | 10-12' |
| Tetrachloroethene | **6,740** | **451** | <7.49 |
| Trichloroethene | <262 | <267 | <7.49 |
| cis-1,2-Dichloroethene | <262 | <267 | <7.49 |
| trans-1,2-Dichloroethene | <262 | <267 | <7.49 |

| SB-5 | 1/31/2013 | | | |
|---|---|---|---|---|
| | 2-4' | 6-8' | 10-12' | 14-16' |
| Tetrachloroethene | **8,070** | **29.9** | **8.39** | **8.79** |
| Trichloroethene | <298 | <4.95 | <6.03 | <6.03 |
| cis-1,2-Dichloroethene | <298 | <4.95 | <6.03 | <6.03 |
| trans-1,2-Dichloroethene | <298 | <4.95 | <6.03 | <6.03 |

| SB-15 | 2/1/2013 | |
|---|---|---|
| | 1-2' | 6-8' |
| Tetrachloroethene | **33.8** | <6.30 |
| Trichloroethene | <8.24 | <6.30 |
| cis-1,2-Dichloroethene | <8.24 | <6.30 |
| trans-1,2-Dichloroethene | <8.24 | <6.30 |

| SB-14 | 2/1/2013 | |
|---|---|---|
| | 2-4' | 6-8' |
| Tetrachloroethene | **4.70** | **7.56** |
| Trichloroethene | <4.15 | <5.87 |
| cis-1,2-Dichloroethene | <4.15 | <5.87 |
| trans-1,2-Dichloroethene | <4.15 | <5.87 |

| SB-30 | 5/3/2013 | | | |
|---|---|---|---|---|
| | 0-2' | 4-6' | 6-8' | 10-12' |
| Tetrachloroethene | **7.11** | <5.0 | **3,870** | **6.59** |
| Trichloroethene | <5.79 | <5.0 | <7.15 | <5.85 |
| cis-1,2-Dichloroethene | <5.79 | <5.0 | <7.15 | <5.85 |
| trans-1,2-Dichloroethene | <5.79 | <5.0 | <7.15 | <5.85 |

| SB-33 | 5/3/2013 | | | |
|---|---|---|---|---|
| | 0-2' | 2-4' | 6-8' | 10-12' |
| Tetrachloroethene | <5.19 | **2,800** | <7.40 | <4.73 |
| Trichloroethene | <5.19 | <5.45 | <7.40 | <4.73 |
| cis-1,2-Dichloroethene | <5.19 | <5.45 | <7.40 | <4.73 |
| trans-1,2-Dichloroethene | <5.19 | <5.45 | <7.40 | <4.73 |

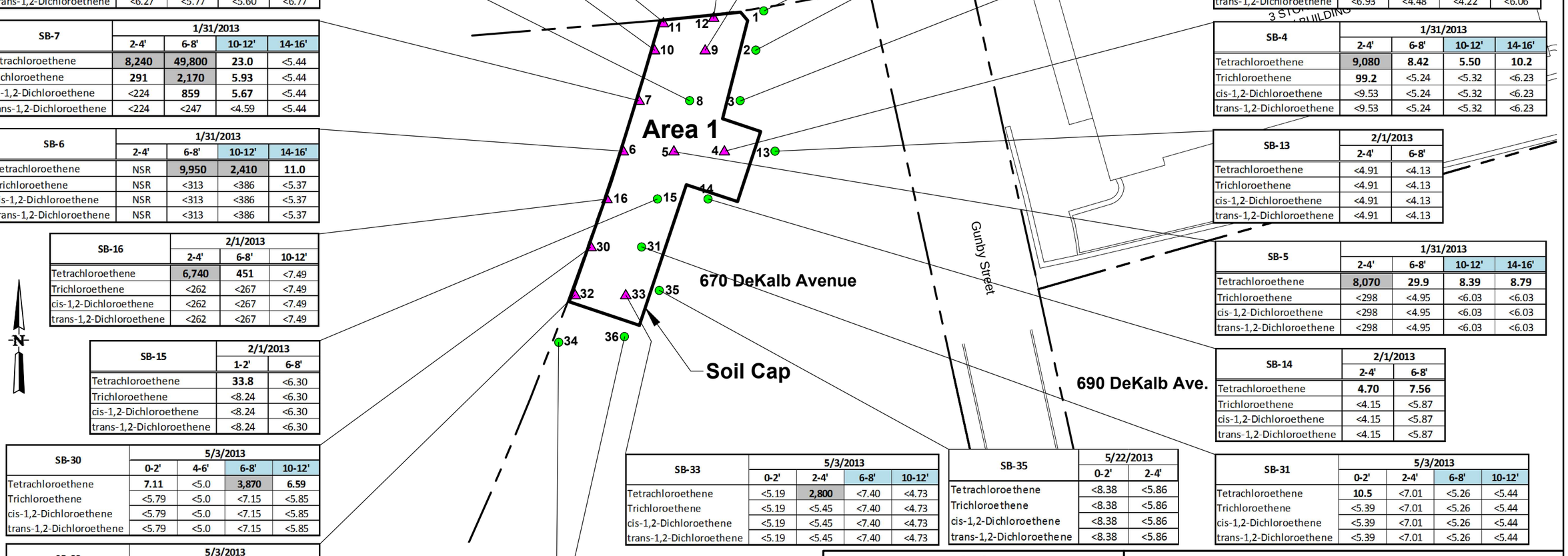
| SB-35 | 5/22/2013 | |
|---|---|---|
| | 0-2' | 2-4' |
| Tetrachloroethene | <8.38 | <5.86 |
| Trichloroethene | <8.38 | <5.86 |
| cis-1,2-Dichloroethene | <8.38 | <5.86 |
| trans-1,2-Dichloroethene | <8.38 | <5.86 |

| SB-31 | 5/3/2013 | | | |
|---|---|---|---|---|
| | 0-2' | 2-4' | 6-8' | 10-12' |
| Tetrachloroethene | **10.5** | <7.01 | <5.26 | <5.44 |
| Trichloroethene | <5.39 | <7.01 | <5.26 | <5.44 |
| cis-1,2-Dichloroethene | <5.39 | <7.01 | <5.26 | <5.44 |
| trans-1,2-Dichloroethene | <5.39 | <7.01 | <5.26 | <5.44 |

| SB-32 | 5/3/2013 | | | |
|---|---|---|---|---|
| | 0-2' | 2-4' | 6-8' | 10-12' |
| Tetrachloroethene | <6.66 | **545** | **21** | <5.14 |
| Trichloroethene | <6.66 | <392 | <8.15 | <5.14 |
| cis-1,2-Dichloroethene | <6.66 | <392 | <8.15 | <5.14 |
| trans-1,2-Dichloroethene | <6.66 | <392 | <8.15 | <5.14 |

| SB-34 | 5/3/2013 | |
|---|---|---|
| | 0-2' | 2-4' |
| Tetrachloroethene | <6.01 | <5.83 |
| Trichloroethene | <6.01 | <5.83 |
| cis-1,2-Dichloroethene | <6.01 | <5.83 |
| trans-1,2-Dichloroethene | <6.01 | <5.83 |

| SB-36 | 5/22/2013 | |
|---|---|---|
| | 0-2' | 2-4' |
| Tetrachloroethene | <4.96 | <6.14 |
| Trichloroethene | <4.96 | <6.14 |
| cis-1,2-Dichloroethene | <4.96 | <6.14 |
| trans-1,2-Dichloroethene | <4.96 | <6.14 |




## Legend

- ▲ - Soil Boring Exceeding Type I RRS
- ● - Soil Boring Below Type I RRS
- Soil Sample Collected Beneath Water Table
- Exceeds Type 3/4 RRS for PCE (500 µg/Kg) and TCE (500 µg/Kg)

**Note: Units are micrograms per kilogram (µg/Kg)**


AEM
Atlanta Environmental Management, Inc.
Environmental Consulting, Engineering, Hydrogeologic Services
2580 Northeast Expressway • Atlanta, Georgia 30345
Phone: 404.329.9006 • Fax: 404.329.2057


Ararmark DeKalb
Semiannual VRP Progress Report

| PROJECT #: | 1133-1401-2 | DRAWN BY: | TL |
|---|---|---|---|
| SCALE: | 1"=30' | DATE: | November 6, 2014 |

Soil Sample Locations and Analytical Results
January 31, February 1, and May 22, 2013

Figure 3

G:\DWG\1133-1401 ARAMARK DeKalb\02\2014-05 PR\B\03 Soil Samples w Results (14-11-5)

# APPENDIX 1
# Cap Inspection and Maintenance Checklist

# APPENDIX 1
# SITE USE AND NON-RESIDENTIAL SOIL RRS MONITORING EVALUATION FORM

## 670 DeKalb Avenue, HSI Site No. 10704

| TYPE | No. | CRITERIA RESPONSE | YES | NO |
|---|---|---|---|---|
| Land Use | 1 | Does this HSRA site meet the conditions under the approved closure? | | |
| | 1a | If no to 1, provide a written explanation (attached) to the EPD within 30 days. | | |
| Exposure | 2 | Are site workers expected to be directly exposed to soils with chemical concentrations in excess of Type 2 RRS at this HSRA site in excess of 250 days per year? | | |
| | 2a | If yes to 2, are these same site workers expected to be exposed to soils at this HSRA site in excess of 25 years throughout their career? | | |
| Erosion | 3 | Is there evidence of soil erosion in the cap area? | | |
| | 3a | If yes to 3, is there evidence of erosion of these soils to off-property areas? | | |
| | 3b | If yes to 3a, are corrective measures being taken? | | |
| | 3c | If yes to 2, 3, 3a, and/or 3b, provide written explanation (attached) to the EPD within 30 days. | | |
| Integrity | 4 | Has the concrete containment changed, moved or become damaged compared to the initial configuration? | | |
| | 4a | If yes to 4, are corrective measures being taken? | | |
| | 4b | Is signage clearly visible and readable indicating a Type IV closure information? | | |
| | 4c | If no to 4b, are corrective measures being taken? | | |
| | 4d | Cap vegetation is adequate, properly controlled, and providing soil protection? | | |
| | 4e | If no to 4d, are corrective measures being taken? | | |
| Inspection | 5 | Date of inspection: | | |
| | 5a | Name of inspector: | | |
| | 5b | Photographs and/or diagrams showing current land use (attached) | | |

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____
NAME (Please type or print) TITLE

_____ _____
SIGNATURE DATE

Baseline Soil CAP conditions:

View looking southwest of final soil-vegetative cap on the NW corner of 670 DeKalb Avenue.

View looking north of final soil-vegetative cap on the NW corner of 670 DeKalb Avenue.

Southerly view from Edgewood Avenue Bridge of the final soil-vegetative cap on the NW corner of 670 DeKalb Avenue.

# ATTACHMENT F

# Geologist Certification

# ATTACHMENT F

## Certification

"I certify that I am a qualified groundwater scientist who has received a baccalaureate or post graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction."

Tony J Gordon

Tony L. Gordon, P.G. (No. 1170)

Nov. 19, 2014

Date

| Labor Hours | Month | Description |
|---|---|---|
| 29 | June 2014 | Preparation of CSR for 670 Dekalb. |
| 81 | July 2014 | Well abandonment activities; groundwater sampling; and preparation of CSR for 670 DeKalb parcel |
| 77 | August 2014 | Preparation of CSR for 670 DeKalb and participation in meeting with EPD |
| 11 | September 2014 | Preparation of CSR for 670 DeKalb |
| 1 | October 2014 | Preparation of CSR for 670 DeKalb |
| 37 | November 2014 | Preparation of CSR for 670 DeKalb |