AECOM Environment

Prepared for:
United Technologies Corporation
Farmington, Connecticut

Prepared by:
AECOM
Atlanta, GA
60432488
December 2015

Annual Groundwater Monitoring Report 2015

Former United Technologies Automotive Site
Thomson, GA
HSI # 10543

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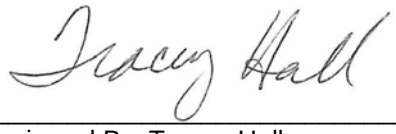
Prepared By: Priya Jacob
Project Engineer



Reviewed By: Tracey Hall
Project Manager

Reviewed By: Bryon Dahlgren, P.E.
Sr. Project Manager

PROFESSIONAL CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in a natural science 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 myself or by a subordinate working under my direction.

By: _____

Bryon Dahlgren, P.E.
Registered Professional Engineer
Georgia Registration PE28676

Date: 12/16/2015

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1.0 Introduction

AECOM Technical Services, Inc. (AECOM), on behalf of United Technologies Corporation (UTC), has prepared this Annual Groundwater Monitoring Report to document work performed at the Former United Technologies Automotive (UTA) Facility (the Site) located at 1884 Warrenton Highway in Thomson, McDuffie County, Georgia (**Figure 1-1**). This report summarizes the June 2015 groundwater monitoring activities conducted at the Site.

In a letter dated June 30, 2015, the Georgia Environmental Protection Division (EPD) approved the March 12, 2015 Voluntary Remediation Program (VRP) Application submitted by AECOM pursuant to the Georgia Voluntary Remediation Program Act. Several questions and comments were included with the EPD VRP June 30th approval letter. AECOM responded to those questions and comments in a response to comments (RTC) letter dated October 16, 2015 which is currently under review by the EPD. As noted in the RTCs, due to the conservative methodology employed during the vapor intrusion evaluation, additional soil gas sampling and further assessment of vapor intrusion potential is not warranted at this time, thus no soil gas sampling plan has been included with this report as requested by EPD. It is our understanding that EPD will review the RTC letter in conjunction with this annual report and provide follow-up comments.

The VRP application replaces the December 2008 Corrective Action Plan (CAP) for the Site and consists of annual groundwater monitoring and reporting for a period of two (2) years, and the execution of a Uniform Environmental Covenant (UEC) to ensure future control of Site-related exposure pathways. Discussions are ongoing with Pelzer on finalizing a draft UEC for the agency to review.

1.1 Site Description

The Site is located on approximately 36.4 acres in an industrial/commercial zoned property surrounded by a rural agricultural area, approximately two (2) miles southwest of the City of Thomson, Georgia (**Figure 1-1**). The Site is bounded by Shaw Industries, Inc. (Shaw) to the southwest, Warrenton Highway 278 to the southeast, Wire Road to the northeast, and a residential property and railroad tracks to the northwest. A site layout is presented as **Figure 1-2**.

1.2 Constituents of Interest

The following compounds exceeded the Type 4 Risk Reduction Standards (RRS) and are considered COIs at the Site:

- 1,1-dichloroethene (1,1-DCE),
- cis-1,2-dichloroethene (cis-1,2-DCE), daughter product of trichloroethene (TCE),
- TCE, and
- vinyl chloride.

2.0 Field Activities

The annual groundwater monitoring event was conducted at the Site on June 23 and 24, 2015, by AECOM field staff. Field parameters were measured during purging and groundwater samples were analyzed for VOCs.

As recommended in the *2013 Annual Progress Report/MNA Effectiveness Report* submitted on March 15, 2014, 12 wells were sampled, including M-02, M-02A, M-04, M-06, M-07, M-08R, M-09, M-10, M-11, M-14D, M-17, and M-18 during the June 2015 sampling event to evaluate COI concentrations. The groundwater sampling locations are shown on **Figure 1-2**. Wells M-01R, M-12, and M-12R are suspected to have been damaged/destroyed prior to the June 2014 sampling event. During previous sampling events, monitoring well M-1R was not located and is suspected to have been damaged/destroyed by construction of a propane tank pad by the current property owner. Also during previous sampling events, monitoring wells M-12 and M-12R were not located and may have been damaged/destroyed by debris placed over the wells by the current property owner. As noted in the October 16, 2015 letter, AECOM will make an attempt to locate M-1R, M-12R, and M-12 during the next sampling event in June 2016. If these wells are located, they will be re-surveyed. Once located, well M-12 will be properly abandoned as VOC concentrations have not been detected at this well, and wells M-1R and M-12R will be rehabilitated and added to the annual sampling program, as these wells are furthest downgradient and separate the source area from the northeast boundary of the Site.

2.1 Groundwater Gauging

The monitoring wells were gauged to compare groundwater elevations to previous sampling events. The depth to water and the total depth of the well were measured using an electronic water level meter. The measurements were referenced from the monitoring well top of casing and were recorded to the nearest 0.01 foot. During gauging, the monitoring wells were inspected for missing bolts, o-rings, or damage to the well that might affect its structural integrity. The probe and part of the tape that entered the monitoring well during gauging was decontaminated between wells. The well gauging and sampling data sheets are provided in **Appendix A**.

2.2 Groundwater Purging and Sampling Methods

Sampling was conducted using low flow/low volume (micropurge) sampling techniques approved initially by the EPD in the CAP, and subsequently modified via email correspondence from the EPD dated January 31, 2012. The low-flow pump discharge tubing was connected to a sealed chamber (flow-through cell) containing probes that measure the water temperature, pH, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) using a Horiba U51 Water Quality Meter, and turbidity was measured with a LaMotte 2020 Turbidimeter. Field parameter values and the corresponding purge times were recorded on the groundwater sampling forms. Field documentation (well gauging data and groundwater sampling forms) is provided in **Appendix A**.

2.3 Sample Handling and Analysis

After collection, each sample vial was labeled and placed upright in a cooler with ice. A chain-of-custody (CoC) record was completed for each cooler and taped to the inner lid of the cooler prior to sealing for shipment. The coolers containing the samples remained in the possession of the sampler

throughout the day until they were delivered for shipment. Each cooler containing samples and a CoC record was shipped to Accutest Laboratories, Inc. (Accutest) in Orlando, Florida.

2.4 Quality Assurance/Quality Control Samples

Field quality control samples were collected and analyzed to document the accuracy and precision of the sample collection and laboratory analysis. Quality control samples included the following:

- Trip Blank. Trip blanks accompanied each sample shipment sent to the laboratory. The trip blanks were analyzed to test for any contaminants introduced while samples were being stored or transported to the laboratory.
- Field Duplicates. Field duplicates were collected and analyzed to evaluate the precision of the groundwater sample analysis. A field duplicate was collected from well M-18.
- MS/MSD. Matrix spike/matrix spike duplicate (MS/MSD) sample sets were collected as part of the laboratory analytical procedure.

2.5 IDW Waste Management

Investigation-derived waste (IDW) generated from monitoring activities at the Site (i.e., purge water and decontamination water) were stored in a 55-gallon drum on Site. Clean Harbors transported and properly disposed of the IDW at an approved disposal facility on June 30, 2015. The waste manifest is included in **Appendix B**.

3.0 Groundwater Monitoring Results

This section of the report presents the field and laboratory results of the June 2015 annual groundwater monitoring event. A discussion of the groundwater elevation data, COI concentrations, and field measurements are provided below. The gauging results are presented in **Table 3-1** and on **Figure 3-1**. The field parameters measured during the sampling event are presented in **Table 3-2** and analytical results are summarized in **Table 3-3**. **Figure 3-2** presents the COI data and **Figures 3-3** through **3-5** present isoconcentration contours for the COIs. Laboratory reports and data validation reports are included in **Appendix C**. Groundwater COI concentration graphs are provided in **Appendix D,** and the Mann-Kendall trend analysis report in **Appendix E**.

3.1 Data Validation Review

The laboratory analytical report was reviewed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review* (USEPA, 2007a). The following items were included in the data validation review:

- Agreement of analyses conducted with COC requests
- Holding times/sample preservation
- Method blanks/trip blanks
- Surrogate results
- Laboratory control sample results
- MS/MSD results
- Field precision results

In general, the data results are valid as reported and may be used for decision making purposes. A copy of the data validation report is included in **Appendix C**.

3.2 Groundwater Elevations and Flow

During the sampling event, the depths to static water levels ranged from 0.28 feet below the top of casing (ft BTOC) at monitoring well M-17 to 12.84 ft BTOC at monitoring well M-20. As mentioned in Section 2.0, monitoring wells M-1R, M-12, and M-12R were not located, and water level measurements were not recorded for these monitoring wells during the event.

Compared to the December 2014 data as reported in the *Annual Progress Report, January 2014 - December 2014*, groundwater elevations in June 2015 increased at 19 of the 23 wells gauged, with the most significant increase observed at monitoring well M-20 (9.17 ft). Groundwater elevations decreased at 4 of the 23 wells gauged, with the most significant decrease observed at monitoring well M-16 (0.91 ft). The groundwater elevations measured during this event were within the historical ranges, with the exception of wells M-13A, M-14D, M-17, and M-18, where historical highs of groundwater elevations were recorded. Well M-16 exhibited a historical low in groundwater elevation.

The hydraulic gradient was 0.00928 feet per foot (ft/ft), calculated between monitoring wells M-02 and M-07. Groundwater elevation contours indicate a general flow direction towards the east (**Figure 3-1**), consistent with previous monitoring events.

3.3 Groundwater Analytical Results

Groundwater samples collected during the event were analyzed and evaluated to monitor the concentrations and spatial distributions of site-specific COIs. Data was compared to the Type 4 RRS. The field parameters and laboratory results of COI are provided in **Tables 3-2** and **3-3**, respectively. Historical concentrations of COIs are additionally provided in **Table 3-3**. The COI data are presented on **Figure 3-2**.

3.3.1 COI Concentrations

TCE

TCE concentrations exceeded the Type 4 RRS for TCE (34.5 µg/L) in samples from monitoring wells M-07 (59 µg/L), M-10 (61.1 µg/L), M-14D (581 µg/L), and M-17 (74 µg/L).

1,1-DCE

1,1-DCE concentration exceeded the Type 4 RRS (523 µg/L) in the sample from well M-09 (698 µg/L). 1,1-DCE was last detected in well M-09 above the Type 4 RRS during the June 2013 sampling event.

Vinyl Chloride

Vinyl chloride was not detected at the Site above the Type 4 RRS (3.29 µg/L) in any of the wells. Vinyl chloride was last detected above the Type 4 RRS during the June 2013 sampling event in the samples from monitoring wells M-08R and M-14D.

Cis-1,2-DCE

Cis-1,2-DCE was not detected at the Site above the Type 4 RRS (1,022 µg/L) during this event. Cis-1,2-DCE has not been detected above Type 4 RRS since monitoring began in September 2005.

Isoconcentration contours for TCE, 1,1-DCE, and vinyl chloride detected are shown on **Figures 3-3** through **3-5**, respectively. The plume is generally limited to the suspected former source area located in the loading dock area and contained within the property boundary.

3.3.2 Field Measurements

Field measurements of pH, DO, and ORP are the key field parameters used to evaluate the geochemical and redox conditions of an aquifer that are favorable for MNA.

pH

During this sampling event, the lowest pH value of 4.40 standard units (su) was measured at monitoring well M-04, and the highest pH value of 9.63 su was recorded at well M-08R. With the exception of the alkaline pH recorded at well M-08R, the pH values ranging from 4.40 su to 6.13 su are consistent with historical observations and indicate slightly acidic conditions in these monitoring wells. The favorable pH range for reductive dechlorination is 6.0 to 8.0 su to sustain microbial activity.

DO and ORP

At all wells sampled during the June 2015 sampling event, DO concentrations were below 1 milligram per liter (mg/L). Two wells located in the suspected former source area, M-09 and M-18, exhibited DO concentrations of 0.45 mg/L and 0.46 mg/L, respectively. These DO concentrations have decreased from measurements recorded during the December 2014 sampling event: 1.99 mg/L at well M-09 and 2.27 mg/L at well M-18.

During the June 2015 sampling event, the ORP measurements at the Site ranged from -119 millivolts (mV) at well M-06 to +329 mV at well M-04. The suspected former source area monitoring wells M-07, M-09, M-10, M-14D, M-17 and M-18 exhibited positive ORP measurements (ranging from 16 mV to 178 mV), and monitoring well M-08R exhibited a negative ORP measurement of -105 mV. These results mirror the ORP measurements during the December 2014 sampling event.

The June 2015 results indicate that the DO concentrations are uniform across the Site, while fluctuations are observed in the ORP values. Transitional conditions of anaerobic DO concentrations and oxidative ORP values were observed at the wells in the suspected former source area. Generally, anaerobic conditions are most favorable for reductive dechlorination of TCE and its daughter products (cis-1,2-DCE and vinyl chloride) although under certain circumstances, aerobic conditions may also allow for aerobic degradation of cis-1,2-DCE and vinyl chloride.

3.3.3 COI Trend Analysis

A decreasing trend of COI concentrations is the most direct indicator to demonstrate the occurrence of MNA. In order to evaluate whether the monitoring data show evidence of increasing or decreasing concentration trends for specific wells and COIs, the Mann-Kendall non-parametric statistical analysis was applied to the groundwater data using the publically-available Monitoring and Remediation Optimization System (MAROS) software, Version 2.2 (Air Force Center for Environmental Excellence, 2007). The Mann-Kendall test does not require any assumptions as to the statistical distribution of the data (e.g., normal, lognormal, etc.) and can be used with data sets that include irregular sampling intervals and missing data.

The Mann-Kendall analysis measures the trend in the data. Positive values indicate an increase in COI concentrations over time, whereas negative values indicate a decrease in COI concentrations over time. The strength of the trend is proportional to the magnitude of the Mann-Kendall analysis, e.g., large magnitudes generally indicate a strong trend. The software also determines the “Confidence in Trend,” which is the statistical probability that the COI concentrations are actually increasing or decreasing. Trends identified with confidence values of 95-100 percent are defined as “Increasing” or “Decreasing.” Trends with confidence values of 90-95 percent are defined as “Probably Increasing” or “Probably Decreasing.” Confidence values below 90 percent are defined as either “No Trend” or “Stable” depending on the determined coefficient of variation, which may be bias subject to the concentration levels and the hydrogeological conditions.

Seven wells (M-02, M-07, M-08R, M-09, M-10, M-14D, and M-17) and four COIs (benzene, 1,1-DCE, TCE, and vinyl chloride) were selected for Mann-Kendall analysis. The wells selected for the analysis have had historical or current detections of COIs above the Type 4 RRS. The COIs used in the analysis are those with concentrations historically exceeding the Type 4 RRS. The concentration trend analysis was conducted for available groundwater monitoring data collected between 2005 and 2015.

In addition, in the letter dated September 17, 2013, the EPD indicated that COI concentration trends in well M-17 should be monitored to evaluate if an additional deep well is required for vertical

delineation in the former source area. Therefore, well M-17 was also included in the Mann-Kendall trend analysis.

The Mann-Kendall statistical trend analysis results are shown in **Table 3-4**, and the MAROS statistical trend analysis is included in **Appendix E**. Among the data sets that were analyzed, the following was concluded:

- Five data sets demonstrate decreasing trends: benzene in well M-02, TCE in wells M-07 and M-08R, and vinyl chloride in wells M-08R and M-14D;
- Two probable decreasing trends were observed: 1,1-DCE in well M-09 and TCE in well M-14D;
- Three data sets demonstrate stable concentrations over time: TCE in well M-10 and vinyl chloride in wells M-07 and M-10;
- No statistically significant trend was observed for one data set: 1,1-DCE in well M-17; and
- One increasing trend was observed for one data set: TCE in well M-17.

The trend analysis results indicate that the COI concentrations in most of the suspected former source area monitoring wells are decreasing or stable. The plume is generally limited to the suspected former source area, which is the loading dock area at the southwestern side of the building. An increasing trend in TCE concentration was observed at monitoring well M-17, which is near the former source area and adjacent to wells with samples reporting higher concentrations.

The increasing trend at well M-17 is the result of higher concentrations detected in 2014 and 2015. However, the concentrations in the three samples collected during this time period have been consistent. AECOM will continue monitoring activities at well M-17 in June 2016 to establish if the current increasing trend continues or has begun to stabilize. Future actions for this location will be determined as appropriate and in agreement with EPD.

4.0 Summary and Recommendations

The following summary and recommendations are derived from the field activities and groundwater monitoring data presented in this report:

1. Annual groundwater monitoring was conducted at the Site in June 2015, as part of the approved VRP application.
2. As requested by EPD in a letter dated June 30, 2015, wells M-3 and M-3A will be sampled as Point of Demonstration wells during the June 2016 sampling event.
3. Wells M-01R, M-12, and M-12R are suspected to have been damaged or destroyed. An attempt will be made to locate the wells and they will be re-surveyed. Once located, well M-12 will be properly abandoned as VOC concentrations have not been detected at this well. Whereas, wells M-1R and M-12R will be rehabilitated and added to the annual sampling program, as these wells are furthest downgradient and separate the source area from the northeast boundary of the Site.
4. Groundwater elevations increased in most wells compared to the December 2014 data. The groundwater flow direction is generally to the east, and is consistent with the flow direction in previous events.
5. COI plumes are limited to the suspected source area. TCE is the primary COI for the Site and was detected at concentrations that exceed the Type 4 RRS in four of the former source area monitoring wells. 1,1-DCE was above the Type 4 RRS at well M-09 (698 µg/L). Vinyl chloride was not detected above Type 4 RRS during this event.
6. The Mann-Kendall trend analysis results indicated that the COI concentrations in the monitoring wells that exceed the Type 4 RRS are decreasing or stable, with the exception of well M-17. Continued monitoring at M-17 is recommended in June 2016 to determine if there is a continuing increasing trend and establish appropriate future activities.
7. The plume is contained on Site, stable within the former source area, and does not appear to be migrating off Site.

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5.0 References

CTI 2006. Compliance Status Report for Former United Technologies Automotive Facility, Thomson, GA, May 17, 2006.

XDD, LLC 2008. Corrective Action Plan, Former United Technologies Automotive Facility, Thomson, GA. December 12, 2008.

XDD, LLC 2012. Semi-Annual Progress Report/MNA Effectiveness Report, Former United Technologies Automotive Facility, Thomson, GA. May 15, 2012.

AECOM 2014. 2013 Annual Progress Report/MNA Effectiveness Report, Former United Technologies Automotive Facility, Thomson, GA. March 15, 2014.

AECOM 2014. Annual Progress Report, January 2014 - December 2014Former United Technologies Automotive Site, Thomson, GA, HSI #10543. May 2015.

AECOM 2015. Voluntary Remediation Plan, Former United Technologies Automotive Facility, Thomson, GA. March 12, 2015.

EPD 2015. Approval of VRP Application for Former United Technologies Automotive Facility, Thomson, GA. June 30, 2015.

Tables

Table 3-1
Groundwater Elevations and Well Construction Details
Former UTA Facility, Thomson, GA

Well ID	Date	Top of Casing (ft AMSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)	Well Depth (ft BTOC)
M-1R	10/25/2011	518.63	6.36	512.27	30.6
	2/14/2012		7.62	511.01	
	6/1/2013		Destroyed		
M-02	10/25/2011	519.19	5.63	513.56	19.92
	2/14/2012		7.62	511.57	
	6/5/2013		3.97	515.22	
	12/16/2013		16.78	502.41	
	6/24/2014		5.66	513.53	
	12/17/2014		7.75	511.44	
	6/23/2015		6.47	512.72	20.15
M-02A	10/25/2011	518.89	8.73	510.16	12.95
	2/14/2012		7.42	511.47	
	6/5/2013		3.63	515.26	
	12/16/2013		6.43	512.46	
	6/24/2014		5.29	513.60	
	12/17/2014		7.52	511.37	
	6/23/2015		6.15	512.74	12.93
M-02B	10/25/2011	520.44	Dry	Dry	7.12
	2/14/2012		Dry	Dry	
	6/5/2013		4.63	515.81	
	12/16/2013		Dry	Dry	
	6/23/2015		Dry	Dry	
M-02SW	10/25/2011	521.60	8.55	513.05	14.20
	2/14/2012		7.74	513.86	
	6/5/2013		1.54	520.06	
	12/16/2013		2.63	518.97	
	6/24/2014		5.84	515.76	
	12/17/2014		7.92	513.68	
	6/23/2015		6.96	514.64	
M-03	10/25/2011	515.22	4.61	510.61	14.90
	2/14/2012		4.96	510.26	
	6/5/2013		1.32	513.90	
	12/16/2013		5.35	509.87	
	6/24/2014		3.22	512.00	
	12/17/2014		4.81	510.41	
	6/23/2015		4.07	511.15	
M-03A	10/25/2011	515.53	5.71	509.82	27.57
	2/14/2012		5.39	510.14	
	6/5/2013		1.83	513.70	
	12/16/2013		3.06	512.47	
	6/24/2014		4.12	511.41	
	12/17/2014		5.51	510.02	
	6/23/2015		4.51	511.02	
M-04	10/25/2011	516.32	9.02	507.30	14.90
	2/14/2012		8.61	507.71	
	6/5/2013		2.58	513.74	
	12/16/2013		4.97	511.35	
	6/24/2014		4.57	511.75	
	12/17/2014		8.72	507.60	
	6/23/2015		5.25	511.07	15.17
M-05	10/25/2011	524.99	18.84	506.15	19.90
	2/14/2012		13.81	511.18	
	6/5/2013		4.03	520.96	
	12/16/2013		11.92	513.07	
	6/24/2014		9.04	515.95	
	12/17/2014		14.85	510.14	
	6/23/2015		10.95	514.04	

Table 3-1
Groundwater Elevations and Well Construction Details
Former UTA Facility, Thomson, GA

Well ID	Date	Top of Casing (ft AMSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)	Well Depth (ft BTOC)
M-06	10/25/2011	521.30	14.83	506.47	15.10
	2/14/2012		10.85	510.45	
	12/16/2013		4.02	517.28	
	6/24/2014		3.68	517.62	
	12/17/2014		8.91	512.39	15.11
	6/23/2015		5.64	515.66	15.16
M-07	10/25/2011	518.61	2.56	516.05	12.90
	2/14/2012		2.11	516.50	
	6/5/2013		0.83	517.78	
	12/16/2013		1.17	517.44	
	6/24/2014		0.99	517.62	
	12/17/2014		1.82	516.79	13.07
	6/23/2015		1.19	517.42	13.12
M-08R	10/25/2011	518.00	1.42	516.58	9.65
	2/14/2012		1.58	516.42	
	6/5/2013		0.45	517.55	
	12/16/2013		1.04	516.96	
	6/24/2014		0.31	517.69	
	12/17/2014		1.12	516.88	
	6/23/2015		0.72	517.28	
M-09	10/25/2011	518.81	3.20	515.61	13.76
	2/14/2012		2.88	515.93	
	6/5/2013		0.99	517.82	
	12/16/2013		1.57	517.24	
	6/24/2014		1.05	517.76	
	12/17/2014		2.38	516.43	
	6/23/2015		1.30	517.51	13.78
M-10	10/25/2011	518.26	1.82	516.44	8.78
	2/14/2012		1.60	516.66	
	6/5/2013		0.65	517.61	
	12/16/2013		0.75	517.51	
	6/24/2014		0.78	517.48	
	12/17/2014		1.15	517.11	
	6/23/2015		0.93	517.33	9.20
M-11	10/25/2011	517.31	2.60	514.71	14.59
	2/14/2012		2.19	515.12	
	6/5/2013		1.64	515.67	
	12/16/2013		1.27	516.04	
	6/24/2014		2.02	515.29	
	12/17/2014		2.30	515.01	
	6/23/2015		2.20	515.11	14.55
M-12R	10/25/2011	517.33	11.87	505.46	15.52
	2/14/2012		Damaged	NA	
M-13	10/25/2011	517.18	6.72	510.46	23.60
	2/14/2012		6.50	510.68	
	6/5/2013		4.28	512.90	
	12/16/2013		4.97	512.21	
	6/24/2014		5.24	511.94	
	12/17/2014		5.86	511.32	
	6/23/2015		5.92	511.26	

Table 3-1
Groundwater Elevations and Well Construction Details
Former UTA Facility, Thomson, GA

Well ID	Date	Top of Casing (ft AMSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)	Well Depth (ft BTOC)
M-13A	10/25/2011	518.15	8.25	509.90	16.08
	2/14/2012		6.80	511.35	
	6/5/2013		4.76	513.39	
	12/16/2013		6.53	511.62	
	6/24/2014		5.32	512.83	
	12/17/2014		7.23	510.92	
	6/23/2015		3.05	515.10	
M-14D	10/25/2011	518.06	1.26	516.80	25.40
	2/14/2012		1.70	516.36	
	6/5/2013		0.54	517.52	
	12/16/2013		0.66	517.40	
	6/24/2014		0.61	517.45	
	12/17/2014		1.33	516.73	25.42
	6/23/2015		0.41	517.65	
M-15	10/25/2011	518.01	2.46	515.55	83.30
	2/14/2012		2.72	515.29	
	6/5/2013		1.32	516.69	
	12/16/2013		1.75	516.26	
	6/24/2014		2.45	515.56	
	6/23/2015		2.89	515.12	
M-16	10/25/2011	517.55	1.66	515.89	13.96
	2/14/2012		1.37	516.18	
	6/5/2013		0.87	516.68	
	12/16/2013		0.59	516.96	
	6/24/2014		1.72	515.83	
	6/23/2015		2.63	514.92	
M-17	10/25/2011	518.03	2.02	516.01	60.22
	2/14/2012		2.30	515.73	
	6/5/2013		0.30	517.73	
	12/16/2013		0.75	517.28	
	6/24/2014		0.63	517.40	
	12/17/2014		1.60	516.43	
	6/23/2015		0.28	517.75	59.27
M-18	10/25/2011	518.29	2.24	516.05	38.40
	2/14/2012		2.27	516.02	
	6/5/2013		1.06	517.23	
	12/16/2013		0.88	517.41	
	6/24/2014		0.85	517.44	
	12/17/2014		1.75	516.54	
	6/23/2015		0.39	517.90	
M-19	10/25/2011	515.93	5.94	509.99	91.45
	2/14/2012		5.19	510.74	
	6/5/2013		4.68	511.25	
	12/16/2013		4.72	511.21	
	6/24/2014		5.14	510.79	
	12/17/2014		5.44	510.49	91.68
	6/23/2015		5.94	509.99	
M-20	10/25/2011	536.86	22.02	514.84	87.30
	2/14/2012		23.02	513.84	
	6/5/2013		11.78	525.08	
	12/16/2013		17.65	519.21	
	6/24/2014		10.22	526.64	
	12/17/2014		22.01	514.85	
	6/23/2015		12.84	524.02	

Table 3-1
Groundwater Elevations and Well Construction Details
Former UTA Facility, Thomson, GA

Well ID	Date	Top of Casing (ft AMSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)	Well Depth (ft BTOC)
M-21	10/25/2011	536.42	20.29	516.13	20.47
	2/14/2012		20.29	516.13	
	6/5/2013		7.62	528.80	
	12/16/2013		16.50	519.92	
	6/24/2014		12.56	523.86	
	12/17/2014		20.25	516.17	
	6/23/2015		12.67	523.75	
S-01	12/16/2013	521.78	3.41	518.37	24.92
S-02	12/16/2013	524.54	5.97	518.57	24.92
S-03	12/16/2013	526.79	7.11	519.68	23.21

Notes:
ft - feet
AMSL - above mean sea level
BTOC - below top of casing
NA - not available

Table 3-2
Field Parameters
Former UTA Facility, Thomson, GA

Sample Location	Sample Date	Conductivity	Dissolved Oxygen	ORP	pH	Temperature	Turbidity
		mS/cm	mg/L	mV	S.U.	^{0}C	NTU
M-02	6/11/2013	0.446	0.12	-67.5	6.00	22.74	4.18
	6/24/2014	0.284	0.26	-2.0	5.82	24.67	8.52
	06/23/2015	0.334	0.24	-59	5.08	24.76	9.8
M-02A	6/10/2013	0.346	3.11	141.7	5.76	24.02	25.8
	6/24/2014	0.286	5.94	-9.0	6.10	24.94	34.8
	06/23/2015	0.472	0.23	-79	6.06	26.23	8.3
M-02B	6/11/2013	0.248	0.65	118.7	5.66	24.19	5.47
M-02SW	6/13/2013	0.287	1.22	166.7	5.45	23.35	115
M-03	6/10/2013	0.226	1.53	179.7	4.13	21.52	1.44
M-03A	6/10/2013	0.223	0.24	162.5	4.44	21.84	14.2
M-04	6/12/2013	0.224	0.53	244.9	4.30	20.71	2.00
	6/24/2014	0.093	0.27	157.0	4.72	23.79	2.99
	06/23/2015	0.089	0.57	329	4.40	22.33	1.4
M-05	6/12/2013	0.211	3.55	198.6	4.75	19.90	4.58
M-06	6/24/2014	0.174	0.00	-56.0	6.47	22.07	2.76
	06/23/2015	0.140	0.24	-119	6.13	21.48	5.9
M-07	6/5/2013	0.175	0.72	153.2	3.80	24.11	1.51
	12/18/2013	0.173	1.54	-42.2	5.83	15.09	2.47
	6/24/2014	0.195	0.94	94.0	5.31	25.90	0
	12/17/2014	0.226	0.80	191	5.34	14.77	3.18
	06/24/2015	0.195	0.61	26	5.43	28.50	3.9
M-08R	6/6/2013	0.302	0.51	129.0	4.54	22.07	4.55
	12/18/2013	0.312	0.64	-166.4	7.01	15.70	4.51
	6/24/2014	0.322	1.83	-73.0	6.36	26.28	4.25
	12/17/2014	0.358	0.58	-120	6.50	18.36	1.56
	06/24/2015	0.185	0.47	-105	9.63	28.57	1.40
M-09	6/5/2013	0.114	0.05	68.6	5.93	20.32	3.11
	12/18/2013	0.171	2.17	9.7	6.47	14.33	36.7
	6/24/2014	0.121	0.00	121.0	5.71	22.50	38.3
	12/17/2014	0.105	1.99	191	5.53	16.21	9.02
	06/24/2015	0.079	0.45	33	5.32	23.81	7.20
M-10	6/5/2013	0.373	0.42	74.8	5.09	24.84	2.02
	12/18/2013	0.269	0.85	-44.0	6.07	14.55	4.98
	6/24/2014	0.338	0.37	14.0	6.22	28.82	8.40
	12/17/2014	0.351	0.62	101	6.06	17.31	5.67
	06/24/2015	0.314	0.95	55	5.84	28.70	2.7
M-11	6/5/2013	0.358	0.37	59.6	4.29	20.79	2.97
	6/24/2014	0.346	0.79	-54.0	5.92	23.72	50.80
	06/23/2015	0.208	0.24	-46	5.50	24.90	1.2
M-13	6/7/2013	0.120	4.03	22.4	8.86	20.67	9.5
M-13A	6/7/2013	0.305	0.85	-18.8	9.02	22.93	12.08
M-14D	6/6/2013	0.474	0.09	-164.8	8.23	23.29	1.53
	12/18/2013	0.224	0.89	-3.7	6.13	17.23	18.6
	6/24/2014	0.259	0.49	41.0	5.99	23.84	9.15
	12/17/2014	0.774	0.59	103	5.81	19.90	1.49
	06/24/2015	0.222	0.38	65	5.63	24.64	6.3
M-15	6/12/2013	0.336	0.05	-155.7	7.49	20.63	2.44
M-16	6/12/2013	0.268	0.06	6.4	5.44	19.49	5.05
M-17	6/6/2013	0.123	0.27	128.2	4.58	21.32	2.64
	6/24/2014	0.110	1.93	78.0	5.89	23.04	12.9
	12/17/2014	0.101	0.63	77	6.10	20.51	0.59
	06/24/2015	0.087	0.52	178	5.82	24.13	1.4
M-18	6/5/2013	0.140	0.38	7.5	5.02	22.73	1.21
	6/24/2014	0.099	0.00	-7.0	6.34	24.53	1.42
	12/17/2014	0.101	2.27	120	6.27	20.77	3.11
	06/24/2015	0.093	0.46	16	5.99	23.57	3.00
M-19	6/7/2013	0.224	0.11	-56.5	10.98	22.78	4.05
M-20	6/11/2013	1.535	0.13	-186.1	11.91	19.50	2.66
M-21	6/11/2013	0.220	3.04	160.7	5.83	18.29	4.67
S-01	12/17/2013	0.033	3.08	47.6	3.96	16.80	37.3
S-02	12/17/2013	0.041	3.12	8.0	4.43	19.16	1.60
S-03	12/17/2013	0.032	3.48	17.4	4.49	17.20	8.15

Notes:
ORP - Oxidation-Reduction Potential
mS/cm - milliSiemens per centimeter
mg/L - milligrams per liter
mV - millivolts
S.U. - Standard Units
^{0}C - degrees Celsius
NTU - Nephelometric Turbidity Units

Table 3-3
Summary of COI Concentrations
Former UTA Facility, Thomson, GA

Sample Location	Constituent Units	Benzene ug/L	1,1-DCE ug/L	cis-1,2-DCE ug/L	TCE ug/L	Vinyl chloride ug/L
	Type 4 RRS	**8.7**	**523**	**1022**	**34.5**	**3.29**
	Sample Date					
M-1	9/25/2005	<2	5	32	25	<2
	11/8/2005	<2	6	31	23	<2
M-1R	4/21/2010	<1	4.6	16.1	16.8	<1
	7/9/2010	<1	5.7	23.2	21.0	<1
	10/10/2010	<1	5.1	21.6	18.8	<1
	2/15/2011	<1	4.8	18.5	16.6	<1
	4/1/2011	<1	6.3	20.4	19.6	<1
	7/28/2011	<1	3.3	20.6	13.8	<1*
	10/1/2011	<1	4.2	25.8	21.9	<1
	2/14/2012	<1	3.4	30.1	22.7	<1*
M-02	9/25/2005	100	<2	<2	<2	<2
	11/30/2007	48.9	<1	<1	<1	<1
	4/21/2010	4.4	<1	<1	<1	<1
	2/14/2012	<1*	<1	<1	<1	<1
	6/11/2013	0.41 J	<1.0	<1.0	<1.0	<1.0
	6/24/2014	1.8	<1.0	<1.0	<1.0	<1.0
	6/23/2015	0.26 J	<1.0	<1.0	<1.0	<1.0
M-02A	11/30/2007	<1	<1	<1	<1	<1
	6/10/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0
M-02B	11/30/2007	<1	<1	<1	<1	<1
	6/11/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-02SW	6/13/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-03	9/25/2005	<2	<2	<2	<2	<2
	11/30/2007	<1	<1	<1	<1	<1
	4/21/2010	<1	<1	<1	<1	<1
	10/10/2010	<1	<1	<1	<1	<1
	7/27/2011	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/10/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-03A	11/30/2007	<1	<1	<1	<1*	<1
	4/21/2010	<1	<1	<1	<1*	<1
	10/10/2010	<1	<1	<1	<1	<1
	7/27/2011	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1*	<1
	6/10/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-04	9/25/2005	<2	<2	<2	<2	<2
	11/30/2007	<1	<1	<1	<1	<1
	4/21/2010	<1	<1	<1	<1	<1
	10/10/2010	<1	<1	<1	<1	<1
	7/26/2011	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0
M-05	9/25/2005	<2	<2	<2	<2	<2
	7/1/2011	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3-3
Summary of COI Concentrations
Former UTA Facility, Thomson, GA

Sample Location	Constituent / Units / Type 4 RRS / Sample Date	Benzene ug/L 8.7	1,1-DCE ug/L 523	cis-1,2-DCE ug/L 1022	TCE ug/L 34.5	Vinyl chloride ug/L 3.29
M-06	9/25/2005	<2	<2	<2	<2	<2
	7/1/2011	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0
M-07	9/25/2005	3	9	23	170	<2
	11/8/2005	3	9	<2	130	<2
	11/30/2007	2.5	<1	19.1	115	<1
	4/21/2010	1.4	9.9	24.7	91.3	3.5
	7/9/2010	1.7	9.3	19.6	90.2	2.5
	10/10/2010	2	8.5	20.9	143	2.5
	2/15/2011	1.4	11	14.5	99.3	<1*
	4/1/2011	<2*	13.9	14.9	118	<2
	7/28/2011	2	7.7	19.3	97.6	3
	10/1/2011	2.2	4.7	22.0	91.6	3.8
	2/14/2012	1.3	3.4	12.3	74.1	1.8
	6/5/2013	0.81 J	7.9	15.1	99.2	<1.0
	12/18/2013	1.0	4.1	12.1	72.4	0.70 J
	6/24/2014	0.84 J	7.3	15.0	60.7	1.6
	12/17/2014	0.96 J	4.4	13.8	71.8	0.72 J
	6/24/2015	0.80 J	8.6	11.6	59	1.7
M-08	11/8/2005	4	5	28	220	3
M-08R	4/21/2010	3.4	7.3	27.9	125	2.9
	7/9/2010	4	6.2	20.5	83.1	2.2
	10/10/2010	2.8	7	36.8	46.3	2.6
	2/15/2011	2.4	6.3	25	94.4	3.1
	4/1/2011	1.8	6.3	15.7	81.7	1.5
	7/27/2011	<1*	2.3	5.8	29.7	1.2
	10/1/2011	1.8	4.0	21.7	56.4	2.3
	2/14/2012	1.7	2.7	14.6	82.0	3.5
	6/6/2013	1.8	3.1	33.0	88.2	3.8
	12/18/2013	0.86 J	1.1	11.0	36.9	1.4
	6/24/2014	0.77 J	2.3	9.7	42.7	1.0
	12/17/2014	0.77 J	2.3	27.8	22.2	1.2
	12/17/2014 DUP	0.81 J	2.2	29.1	20.2	1.1
	6/24/2015	<1.0	0.34 J	1.1	6.7	<1.0
M-09	11/8/2005	<2	810	7	5	<2
	11/30/2007	2.9	388	11.2	9.3	<1
	4/21/2010	2.2	1360	8.6	8.5	1.2
	7/9/2010	1.3	754	11.1	10.7	<1*
	10/10/2010	1.3	577	14.1	13.2	<1
	2/15/2011	<1*	957	11.7	10.8	<1*
	4/1/2011	<1*	1,000	12.1	11.9	<1
	7/28/2011	1.1	949	12.5	11.5	<1*
	10/1/2011	1.1	527	12.9	12.0	<1*
	2/14/2012	<1*	1,050	13.8	12.6	<1*
	6/5/2013	5.0	858	6.1	6.4	2.1
	12/18/2013	<5.0	327	4.1 J	3.9 J	<5.0
	6/24/2014	1.5	378	11.1	10.3	<1.0
	12/17/2014	0.48 J	340	10.2	10.2	<1.0
	6/24/2015	1.4	698	11.7	11.5	<1.0

Table 3-3
Summary of COI Concentrations
Former UTA Facility, Thomson, GA

Sample Location	Constituent Units	Benzene ug/L	1,1-DCE ug/L	cis-1,2-DCE ug/L	TCE ug/L	Vinyl chloride ug/L
	Type 4 RRS	**8.7**	**523**	**1022**	**34.5**	**3.29**
	Sample Date					
M-10	11/8/2005	2	3	34	280	4
	11/30/2007	<1*	<1	6.3	38.1	<1
	4/21/2010	<1	<1	1.5	9.1	<1
	7/9/2010	<1*	<1*	7.7	45.5	1.5
	10/10/2010	<1*	<1	15.9	94.3	1.9
	2/15/2011	<1*	<1*	8.9	60.8	<1*
	4/1/2011	<1*	<1*	10	62.4	<1
	7/27/2011	<1*	<1*	20.6	87	2
	10/1/2011	<1*	<1*	17.4	74.5	1.2
	2/14/2012	<1*	<1*	10.9	43.6	<1
	6/5/2013	<1.0	<1.0	3.3	10.5	<1.0
	12/18/2013	<1.0	<1.0	6.3	28.6	<1.0
	12/18/2013 DUP	<1.0	<1.0	7.0	28.3	<1.0
	6/24/2014	<1.0	0.38 J	9.4	44.0	0.69 J
	12/17/2014	<1.0	0.37 J	7.6	47.2	0.53 J
	6/24/2015	0.28 J	0.71 J	10.2	61.1	0.98 J
M-11	11/8/2005	<2	<2	<2	<2	<2
	11/30/2007	<1	<1	<1	<1	<1
	4/21/2010	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/5/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0
M-12	11/8/2005	<2	<2	<2	<2	<2
	2/14/2012	<1	<1	<1	<1	<1
M-12R	4/21/2010	<1	<1	1.7	2.9	<1
	7/9/2010	<1	<1*	1.6	3.0	<1
	10/10/2010	<1	<1	3.3	5.8	<1
	7/26/2011	<1	<1*	3.2	5.4	<1
M-13	11/30/2007	<1	<1	<1	<1	<1
	4/21/2010	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/7/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-13A	11/30/2007	<1	<1	<1	<1	<1
	4/21/2010	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/7/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-14D	4/21/2010	<10*	<10*	18	439	<10
	7/9/2010	<10*	<10*	23.3	856	<10
	10/10/2010	3.5	11.7	29	701	1.3
	2/15/2011	2.3	8.6	21.8	247	3.6
	4/1/2011	<5*	10.7	29.1	309	<5
	7/27/2011	2.7	5.8	40.6	293	<5
	10/1/2011	2.6	4.7	18.3	217	3.1
	2/14/2012	1.8	3.1	14.3	93.0	3.3
	6/6/2013	1.3	1.5	23.5	37.5	3.3
	6/6/2013 DUP	1.2	1.5	22.2	35	3.2
	12/18/2013	1.3	2.6	15.3	122	2.0
	6/24/2014	1.6 J	3.6 J	21.4	410	<5.0
	12/17/2014	1.5 J	5.2	15.5	244	<2.5
	6/24/2015	2.3	9.2	25.2	581	1.5

Table 3-3
Summary of COI Concentrations
Former UTA Facility, Thomson, GA

Sample Location	Constituent / Units	Benzene ug/L	1,1-DCE ug/L	cis-1,2-DCE ug/L	TCE ug/L	Vinyl chloride ug/L
	Type 4 RRS	8.7	523	1022	34.5	3.29
	Sample Date					
M-15	7/28/2011	<1	<1	<1	<1	<1
	2/14/2012	<1	<1	<1	<1	<1
	6/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-16	7/28/2011	<1	<1	<1	<1	<1
	6/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-17	7/28/2011	<1*	94.2	7.8	27.3	<1
	10/1/2011	<1	38.8	2.4	10.4	<1
	2/14/2012	<1	10.8	<1*	7.4	<1
	6/6/2013	<1.0	2.3	6.0	28.5	<1.0
	6/24/2014	<1.0	39.5	5.5	76.1	<1.0
	6/24/2014 DUP	<1.0	38.9	5.3	75.0	<1.0
	12/17/2014	<1.0	38.8	4.5	83.9	<1.0
	6/24/2015	<1.0	39.5	4.6	74	<1.0
M-18	7/28/2011	<1	<1	<1	4.5	<1
	10/1/2011	<1	<1	<1	2.9	<1
	2/14/2012	<1	<1	<1*	8.0	<1
	6/5/2013	<1.0	<1.0	8.0	8.1	<1.0
	6/24/2014	<1.0	<1.0	<1.0	1.2	<1.0
	12/17/2014	<1.0	<1.0	<1.0	1.2	<1.0
	6/24/2015	<1.0	0.65 J	<1.0	1.5	<1.0
	6/24/2015 DUP	<1.0	0.71 J	<1.0	1.5	<1.0
M-19	7/28/2011	<1*	<1	<1	<1	<1
	2/14/2012	<1*	<1	<1	<1	<1
	6/7/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-20	7/28/2011	<1	<1	<1	<1	<1
	6/11/2013	<1.0	<1.0	<1.0	<1.0	<1.0
M-21	7/28/2011	<1	<1	<1	<1	<1
	6/11/2013	<1.0	<1.0	<1.0	<1.0	<1.0
S-01	11/30/2007	<1	<1	<1	<1	<1
	10/1/2008	<1	<1	<1	<1	<1
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
S-02	11/30/2007	<1	<1	<1	<1	<1
	10/1/2008	<1	<1	<1	<1	<1
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
S-03	11/30/2007	<1	<1	<1	<1	<1
	10/1/2008	<1	<1	<1	<1	<1
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
ug/L - micrograms per liter
TCE - Trichloroethene
TCA - Trichloroethane
DCE - Dichloroethene
RRS - Risk Reduction Standard
J - The associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected; however, the reported quantitation limit is approximated and may be inaccurate or ir
Shaded - The analyte concentration exceeded the Type 4 RRS.
DUP - duplicate sample

Table 3-4
Mann-Kendall Trend Analysis Results
Former UTA Facility, Thomson, GA

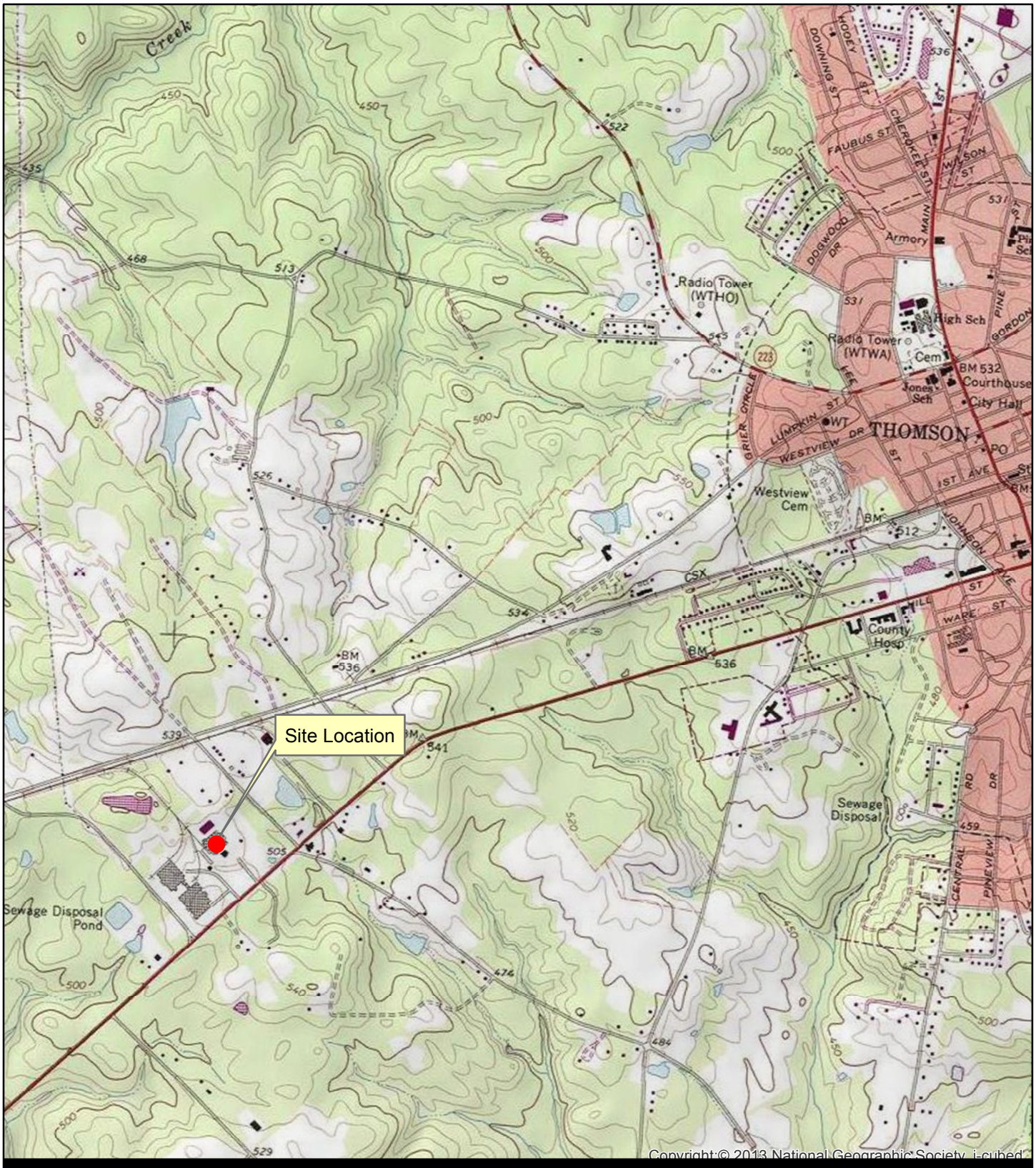
Chemical	Well ID	Numbers of Samples	Numbers of Detects	Coefficient of Variation	Mann-Kendall Statistic[1]	Confidence in Trend	All Samples ND?	Concentration Trend[2]
BENZENE	M-2	7	6	1.73	-17	99.50%	No	D
DICHLOROETHENE (DCE)	M-9	14	14	0.43	-25	90.40%	No	PD
	M-17	8	8	0.72	2	54.80%	No	NT
TRICHLOROETHENE (TCE)	M-10	16	16	0.99	-12	68.70%	No	S
	M-14D	14	14	0.76	-27	92.10%	No	PD
	M-17	8	8	0.68	16	96.90%	No	I
	M-7	16	16	0.31	-80	100.00%	No	D
	M-8R	14	14	0.59	-53	99.80%	No	D
VINYL CHLORIDE	M-10	16	8	0.9	-10	65.50%	No	S
	M-14D	14	8	0.53	-41	98.70%	No	D
	M-7	16	10	0.67	-3	53.60%	No	S
	M-8R	14	13	0.51	-38	97.90%	No	D

Notes:

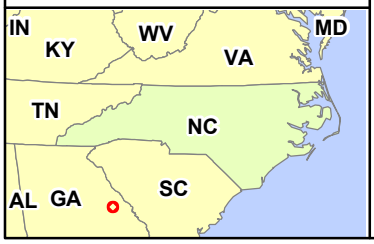
[1] Mann-Kendall analysis was performed using MAROS 2007 software.

[2] I: Increasing; PI: Probably Increasing; S: Stable; PD: Probably Decreasing; D: Decreasing; NT: No Trend; ND: Not Detected.

Figures



Map Location



Site Location Map

Former United Technologies
Automotive Facility
Thomson, Georgia

USGS Topographic Quadrangle

0 2,000 4,000 Feet

N

December 2015

60432488

Attachment 1

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~ GEORGIA RAILROAD ~

KNOX, W.L.M. ETAL
TAX PARCEL ID 00200047

BRANNON, JOHN ED
TAX PARCEL ID 00200050

HARBESON, LEWIS & JAN A. JR.
TAX PARCEL ID 00200051

GEORGIA TRANSMISSION
TAX PARCEL ID 00200050A00

HOOVER TREATED WOOD
TAX PARCEL ID 00200048

REESE, LAWANA & ROBERT W.
TAX PARCEL ID 00200055

NELSON, LAVERN S.
TAX PARCEL ID 00200052

SMITH, J.S.
TAX PARCEL ID 00200053

SAICON INDUSTRIES INC.
TAX PARCEL ID 00310034

~ SHAW INDUSTRIES ~

SHAW INDUSTRIES
TAX PARCEL ID 00200057

VAUGHN GAY KNOX ETAL.
TAX PARCEL ID 00200069

EXISTING BUILDING
HP PELZER AUTOMOTIVE SYSTEMS
TAX PARCEL ID 00200056

L1: S 70°32'55" W 404.20'
L2: N 71°01'20" W 477.47'
L3: S 46°52'25" E 996.16'
L4: N 70°27'27" E 148.57'
L5: N 70°27'25" E 181.65'
L6: N 71°03'45" E 375.98'
L7: S 43°22'05" E 1162.87'
L8: S 10°20'25" E 98.40'
L9: S 38°57'15" E 360.80'
L10: S 43°30'25" E 563.25'
L11: S 46°22'45" E 679.11'
L12: S 45°53'43" E 337.85'
L13: S 20°50'00" E 109.42'
L14: N 46°29'06" E 962.66'

25.00'
GEORGIA POWER EASEMENT (D.B. 71, PG. 325)
CL GEORGIA POWER HIGH VOLTAGE LINE
100.00' GEORGIA POWER EASEMENT
15.00' SEWER EASEMENT

M-01 M-02 M-02A M-02B M-02SW M-03 M-03A M-04 M-05 M-06 M-07 M-08R M-09 M-10 M-11 M-12 DAMAGED M-12R DAMAGED M-13 M-13A M-14D M-15 M-16 M-17 M-18 M-19 M-20 M-21 M-1R DAMAGED
S-01 S-02 S-03

METAL BLD.
POWER PAD
ASPHALT
OVERHANG
DITCH
POND
GUARD SHACK
SIGN
LOCATION OF NEW PROPANE TANKS
BROKEN CONCRETE MOUMENT FOUND
CHAIN LINK FENCE APPEARS TO ENCROACH UPON THE PROPERTY OF SHAW INDUSTRIES

LEGEND

- MONITORING WELL
- FENCE
- POWER LINE
- SANITARY SEWER LINE
- RAILROAD TRACK
- DITCH
- PROPERTY BOUNDARY

N

100 0 100 200
GRAPHIC SCALE 1" = 100'

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Filename: Z:\CAD\PROJECTS\UNITED_TECHNOLOGIES_CORP\THOMSON_GA\DWG\2015_JUNE\FIGURE 1-2_SITE LAYOUT_11.15.DWG

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DATE
2015.12.04

PROJECT NUMBER
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FIGURE TITLE
Site Layout with
Parcel Boundaries

FIGURE NUMBER
1-2

Project Management Initials: Designer:CGRAL Checked:THATL Approved:

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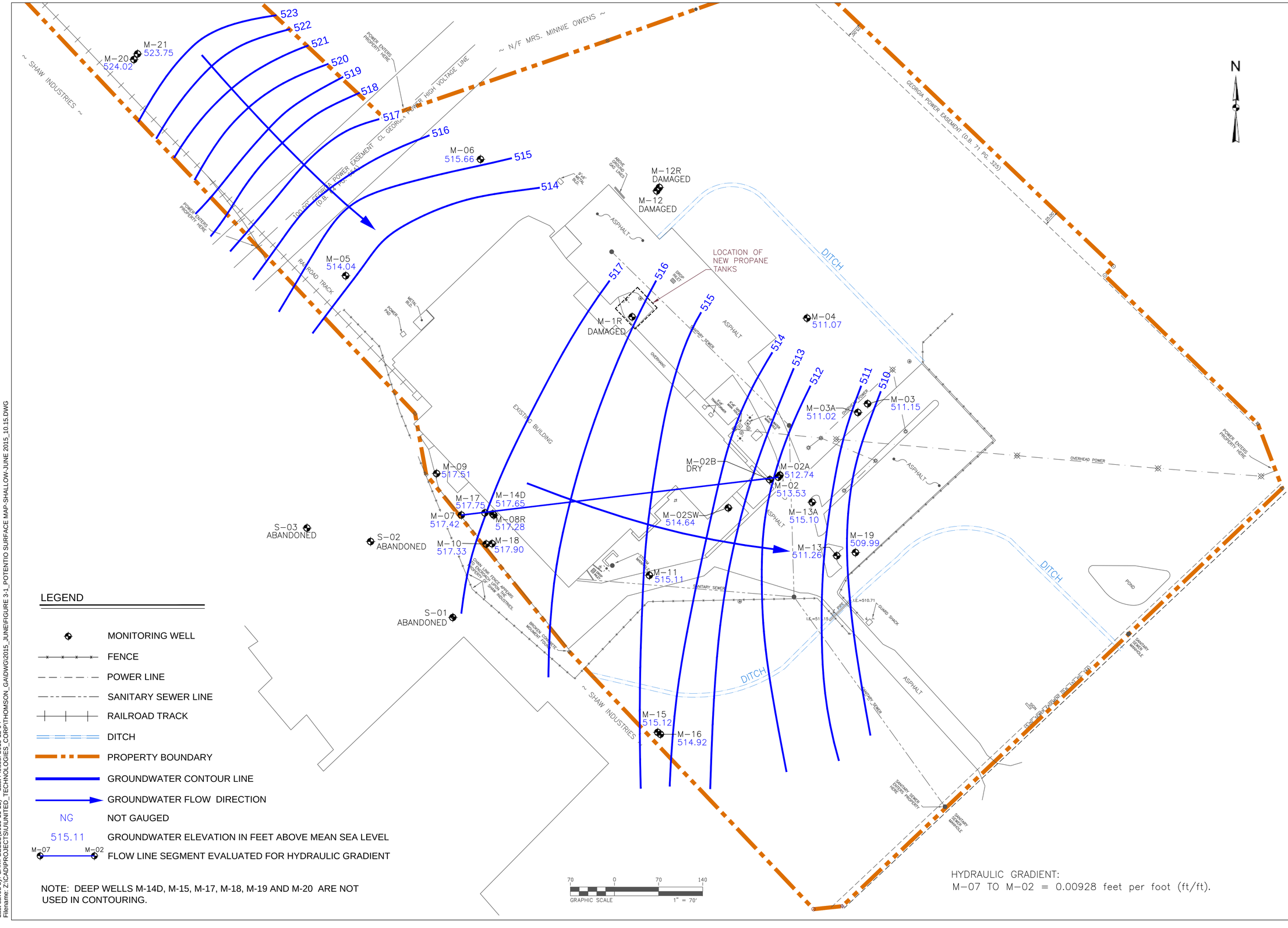
Filename: Z:\CAD\PROJECTS\UU\UNITED_TECHNOLOGIES_CORP\THOMSON_GA\DWG\2015_JUNE\FIGURE 3-1_POTENTIO SURFACE MAP-SHALLOW-JUNE 2015_10.15.DWG



LEGEND

- MONITORING WELL
- FENCE
- POWER LINE
- SANITARY SEWER LINE
- RAILROAD TRACK
- DITCH
- PROPERTY BOUNDARY
- GROUNDWATER CONTOUR LINE
- GROUNDWATER FLOW DIRECTION
- NG — NOT GAUGED
- 515.11 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- M-07 — M-02 — FLOW LINE SEGMENT EVALUATED FOR HYDRAULIC GRADIENT

NOTE: DEEP WELLS M-14D, M-15, M-17, M-18, M-19 AND M-20 ARE NOT USED IN CONTOURING.

HYDRAULIC GRADIENT:
M-07 TO M-02 = 0.00928 feet per foot (ft/ft).

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DATE
2015.11.12

PROJECT NUMBER
60432488

FIGURE TITLE
Potentiometric Surface Map for the Shallow Aquifer - June 2015

FIGURE NUMBER
3-1

~ GEORGIA RAILROAD ~

KNOX, W.L.M. ETAL
TAX PARCEL ID 00200047

BRANNON, JOHN ED
TAX PARCEL ID 00200050

HARBESON, LEWIS & JAN A. JR.
TAX PARCEL ID 00200051

GEORGIA TRANSMISSION
TAX PARCEL ID 00200050A00

REESE, LAWANA & ROBERT W.
TAX PARCEL ID 00200055

NELSON, LAVERN S.
TAX PARCEL ID 00200052

SMITH, J.S.
TAX PARCEL ID 00200053

HOOVER TREATED WOOD
TAX PARCEL ID 00200048

SAICON INDUSTRIES INC.
TAX PARCEL ID 00310034

~ SHAW INDUSTRIES ~

SHAW INDUSTRIES
TAX PARCEL ID 00200057

VAUGHN GAY KNOX ETAL.
TAX PARCEL ID 00200069

LINE TABLE		
LINE	BEARING	LENGTH
L1	N70°32'55"E	46.00'
L2	N19°27'05"W	20.00'
L3	S43°44'54"W	20.00'
L4	S84°06'33"W	45.84'

T.S. 70°32'55" W 404.20'

L1

N 71°01'20" W 477.47'

RAILROAD TRACK

S 46°52'25" E 996.16'

S43°22'05"E 1162.87'

CL GEORGIA POWER HIGH VOLTAGE LINE

100.00' GEORGIA POWER EASEMENT

N 70°27'27" E 148.57'

N 70°27'25" E 181.65'

25.00'

GEORGIA POWER EASEMENT (D.B. 71, PG. 325)

S 46°22'45" E 679.11'

L3

S 45°53'43" E 337.85'

S 20°50'00" E 109.42'

L4

S 10°20'25" E 96.40'

S36°57'15"E 360.80'

S43°30'25"E 563.25'

N46°29'06"E 962.66'

15.00' SEWER EASEMENT

SIGN

METAL BLD.

M-12R DAMAGED

M-12 DAMAGED

LOCATION OF NEW PROPANE TANKS

ASPHALT

M-1R DAMAGED

EXISTING BUILDING
HP PELZER AUTOMOTIVE SYSTEMS
TAX PARCEL ID 00200056

METAL BLD.

POWER PAD

OVERHANG

M-05

M-06

M-20

M-21

M-09

M-17

M-14D

M-07

M-08R

M-10

M-18

M-11

S-01

S-02

S-03

M-15

M-16

M-04

M-03

M-03A

M-02B

M-02A

M-02

M-13A

M-02SW

M-13

M-19

ASPHALT

DITCH

POND

GUARD SHACK

CHAIN LINK FENCE APPEARS TO ENCROACH UPON THE PROPERTY OF SHAW INDUSTRIES

BROKEN CONCRETE MOUMENT FOUND

M-17		
Analyte	RRS	6/24/2015
TCE	34.5	**74**
1,1-DCE	523	39.5

M-09		
Analyte	RRS	6/24/2015
TCE	34.5	11.5
1,1-DCE	523	**698**

M-14D		
Analyte	RRS	6/24/2015
TCE	34.5	**581**
1,1-DCE	523	9.2
Vinyl chloride	3.29	1.5

M-07		
Analyte	RRS	6/24/2015
TCE	34.5	**59**
1,1-DCE	523	8.6
Vinyl chloride	3.29	1.7

M-08R		
Analyte	RRS	6/24/2015
TCE	34.5	6.7
1,1-DCE	523	0.34J

M-18		
Analyte	RRS	6/24/2015
TCE	34.5	1.5
1,1-DCE	523	0.71J

M-10		
Analyte	RRS	6/24/2015
TCE	34.5	**61.1**
1,1-DCE	523	0.71J
Vinyl chloride	3.29	0.98J

N

100 0 100 200
GRAPHIC SCALE 1" = 100'

LEGEND

- MONITORING WELL
- FENCE
- POWER LINE
- SANITARY SEWER LINE
- RAILROAD TRACK
- DITCH
- PROPERTY BOUNDARY
- TCE TRICHLOROETHENE
- 1,1-DCE 1,1-DICHLOROETHENE
- RSS TYPE 4 RISK REDUCTION STANDARDS

NOTES:
1. **BOLD** AND SHADED CONCENTRATION EXCEEDS THE TYPE 4 ACTION LEVEL.
2. CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L).
3. J: THE ASSOCIATED NUMERICAL VALUE IS THE APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.

Project Management Initials: Designer: CCIRAL Checked: THATL Approved:

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Filename: Z:\CAD\PROJECTS\UNITED_TECHNOLOGIES_CORP\THOMSON_GA\DWG\2015_JUNE\FIGURE 3-2_GROUNDWATER RESULTS-JUNE 2015_10.15.DWG

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DATE

2015.12.04

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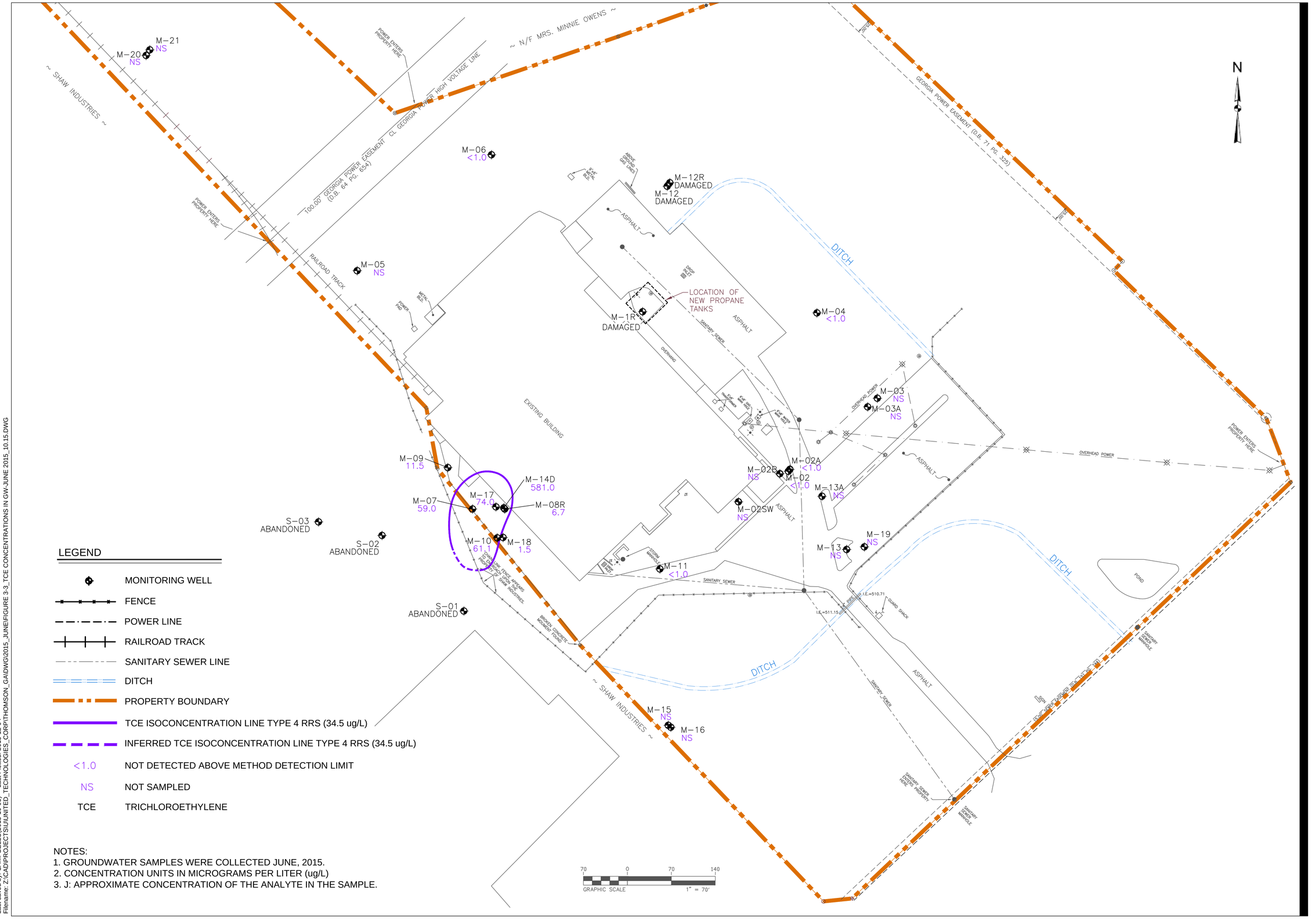
FIGURE TITLE

Groundwater Analytical Results - June 2015

FIGURE NUMBER

3-2



LEGEND

- MONITORING WELL
- FENCE
- POWER LINE
- RAILROAD TRACK
- SANITARY SEWER LINE
- DITCH
- PROPERTY BOUNDARY
- TCE ISOCONCENTRATION LINE TYPE 4 RRS (34.5 ug/L)
- INFERRED TCE ISOCONCENTRATION LINE TYPE 4 RRS (34.5 ug/L)
- <1.0 NOT DETECTED ABOVE METHOD DETECTION LIMIT
- NS NOT SAMPLED
- TCE TRICHLOROETHYLENE

NOTES:
1. GROUNDWATER SAMPLES WERE COLLECTED JUNE, 2015.
2. CONCENTRATION UNITS IN MICROGRAMS PER LITER (ug/L)
3. J: APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.

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Filename: Z:\CAD\PROJECTS\UNITED_TECHNOLOGIES_CORP\THOMSON_GA\DWG\2015_JUNE\FIGURE 3-3_TCE CONCENTRATIONS IN GW-JUNE 2015_10.15.DWG

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DATE
2015.12.04

PROJECT NUMBER
60432488

FIGURE TITLE
TCE Concentrations in Groundwater - June 2015

FIGURE NUMBER
3-3

Project Management Initials: Designer: CCR/AL Checked: THATL Approved:

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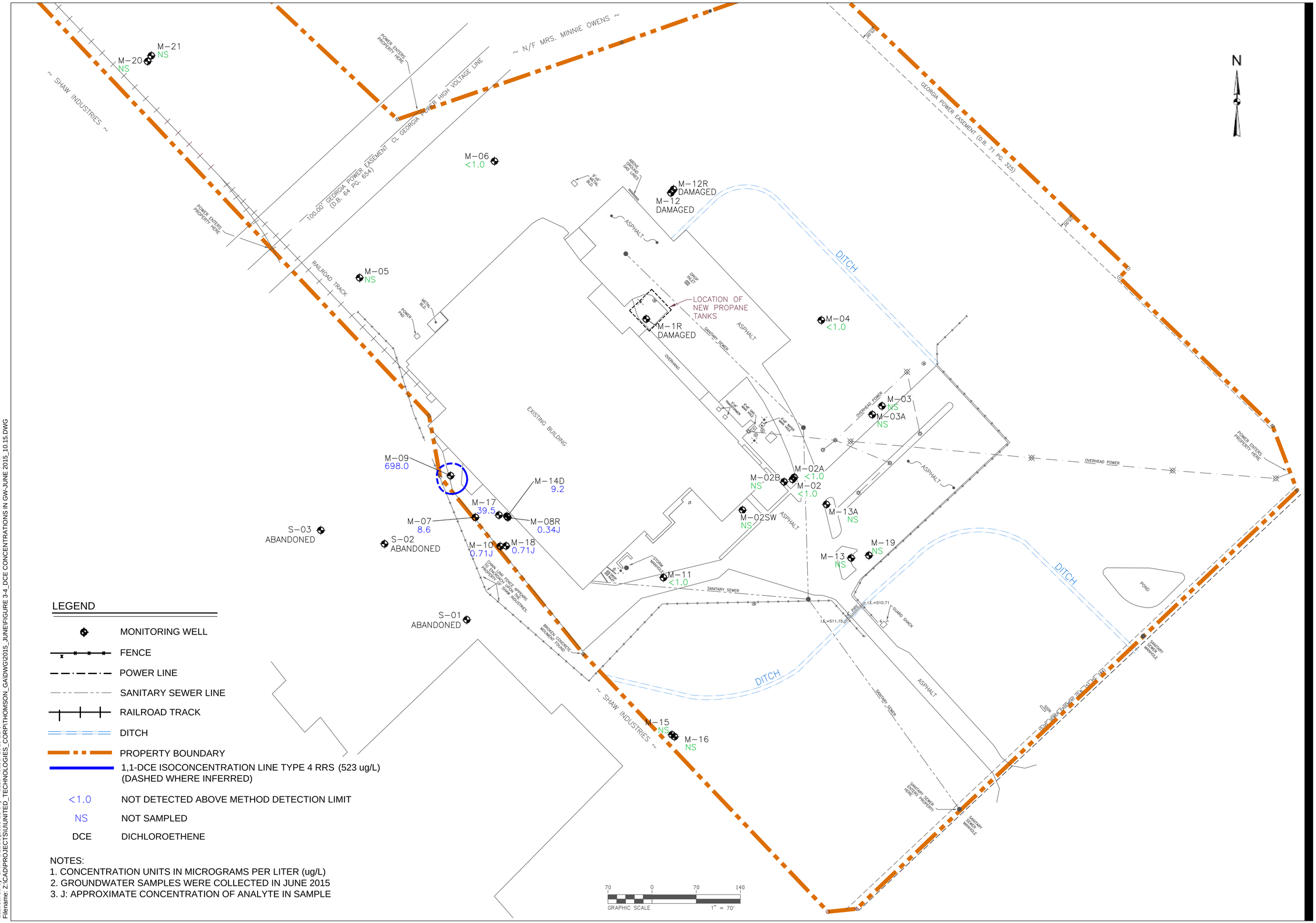
Filename: Z:\CAD\PROJECTS\UU\UNITED_TECHNOLOGIES_CORP\THOMSON_GA\DWG\2015_JUNE\FIGURE 3-4_DCE CONCENTRATIONS IN GW-JUNE 2015_10.15.DWG



LEGEND

- MONITORING WELL
- FENCE
- POWER LINE
- SANITARY SEWER LINE
- RAILROAD TRACK
- DITCH
- PROPERTY BOUNDARY
- 1,1-DCE ISOCONCENTRATION LINE TYPE 4 RRS (523 ug/L) (DASHED WHERE INFERRED)
- <1.0 NOT DETECTED ABOVE METHOD DETECTION LIMIT
- NS NOT SAMPLED
- DCE DICHLOROETHENE

NOTES:
1. CONCENTRATION UNITS IN MICROGRAMS PER LITER (ug/L)
2. GROUNDWATER SAMPLES WERE COLLECTED IN JUNE 2015
3. J: APPROXIMATE CONCENTRATION OF ANALYTE IN SAMPLE

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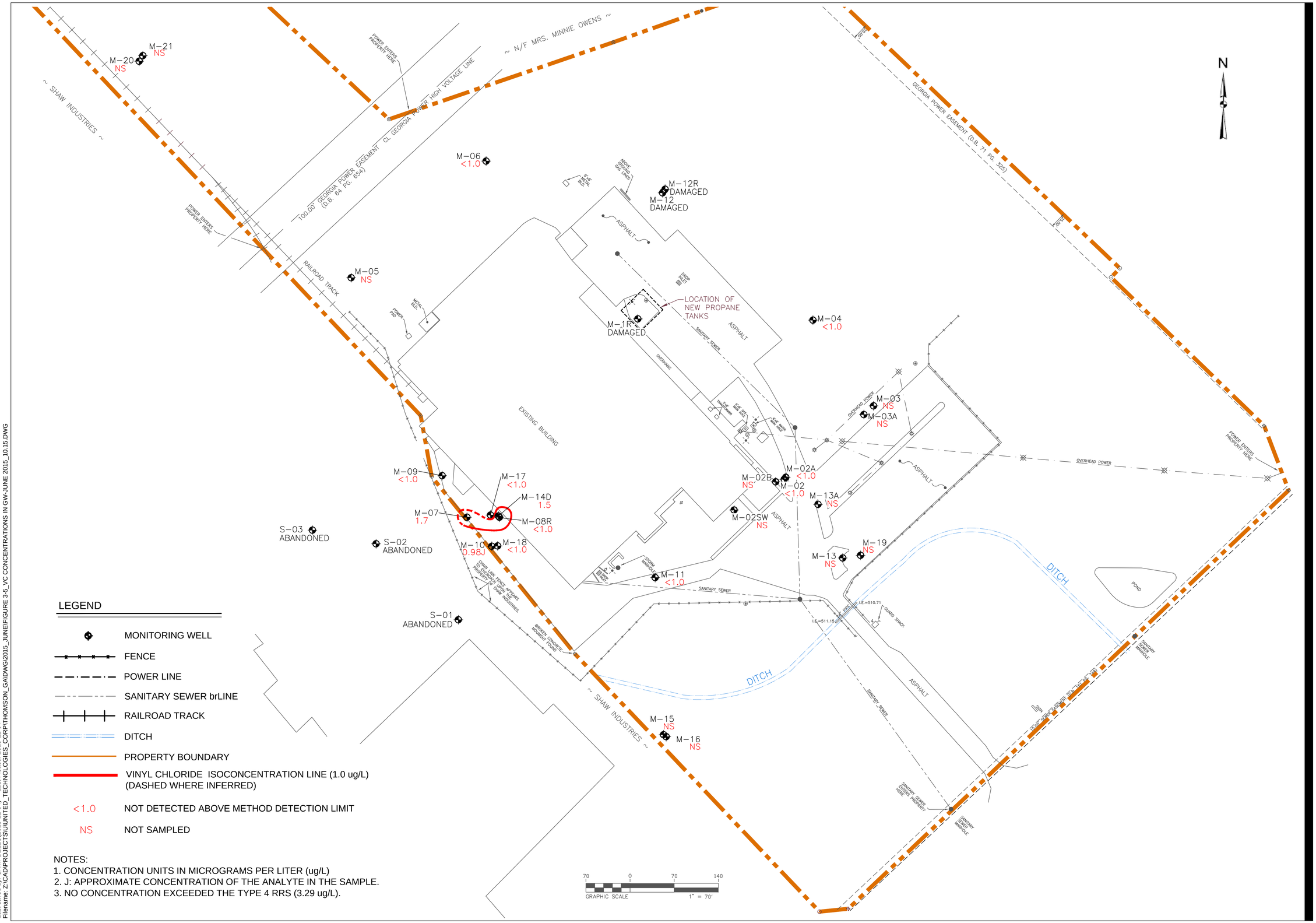
DATE
2015.12.04

PROJECT NUMBER
60432488

FIGURE TITLE
1,1-DCE Concentrations in Groundwater - June 2015

FIGURE NUMBER
3-4



LEGEND

- MONITORING WELL
- FENCE
- POWER LINE
- SANITARY SEWER brLINE
- RAILROAD TRACK
- DITCH
- PROPERTY BOUNDARY
- VINYL CHLORIDE ISOCONCENTRATION LINE (1.0 ug/L) (DASHED WHERE INFERRED)
- <1.0 NOT DETECTED ABOVE METHOD DETECTION LIMIT
- NS NOT SAMPLED

NOTES:
1. CONCENTRATION UNITS IN MICROGRAMS PER LITER (ug/L)
2. J: APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.
3. NO CONCENTRATION EXCEEDED THE TYPE 4 RRS (3.29 ug/L).

Project Management Initials: Designer: CCIRAL Checked: THIATL Approved:

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Filename: Z:\CAD\PROJECTS\UNITED_TECHNOLOGIES_CORP\THOMSON_GA\DWG\2015_JUNE\FIGURE 3-5_VC CONCENTRATIONS IN GW-JUNE 2015_10.15.DWG

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DATE

2015.12.04

PROJECT NUMBER

60432488

FIGURE TITLE

Vinyl Chloride Concentrations in Groundwater -
June 2015

FIGURE NUMBER

3-5

Appendix A

Groundwater Purging and Sampling Forms

Location UTC-Thomson Date 6-23-15

Project / Client UTC

1030: arrive onsite, review health & safety, conduct tailgate safety meeting, meet w/ health & safety (Bryan Lucks) of current property owner.

1100: begin setup on M-02, begin purge @ 1125 M-02-06232015@1205, cleanup site & move to M-02A

1220: begin setup on M-02A, begin purge at 1220 M-02A-06232015@1300, cleanup site, drop purge water, depart for lunch

1330: begin setup on M-04, begin purge at 1320 M-04-06232015@1500, cleanup site, move to M-11

1505: begin setup on M-11, begin purge at 1515 M-11-06232015@1550, cleanup site & move to M-06

1600: locate M-06 & begin purge at 1645 M-06-06232015@1725, cleanup site & checkout

1735: checkout

MK

Location UTC-Thomson Date 6-24-15

Project / Client

Well ID	DTW / TD
M-2:	6.47 / 20.15
M-2A:	6.15 / 12.93
M-2B:	DRY
M-2SW:	6.96 / NM
M-3:	4.07 / NM
M-3A:	4.51 / NM
M-4:	5.25 / 15.17
M-5:	10.95 / NM
M-6:	5.64 / 15.16
M-7:	1.19 / 13.12
M-8R:	0.72 / 9.65
M-9:	1.30 / 13.78
M-10	0.93 / 9.20
M-11:	2.20 / 14.55
M-13:	5.92 / NM
M-13A:	3.05 / NM
M-14D:	0.41 / 25.42
M-15:	2.89 / NM
M-16:	2.63 / NM
M-17:	0.28 / 59.27
M-18:	0.39 / 38.40
M-19:	5.94 / NM
M-20:	12.84 / NM
M-21:	12.67 / NM

*NM- not measured

Location UTC-Thomson Date 6-24-15

Project / Client

0730: arrive onsite, conduct health & safety meeting. begin calibration

0800: begin setup on M-18, begin purge @ 0830
M-18-06242015 @ 0916
M-18-06242015-DUP @ 0910,
cleanup site & move to M-10

0915: begin setup on M-10, begin purge @ 0917
M-10-06242015 @ 0945
clean site & move to M-17

1000: setup on M-17, begin purge @ 1012
M-17-06242015 @ 1045
drop purge water, clean site, move to M-14D

1100: set up on M-14D, begin purge @ 1107
M-14D-06242015 @ 1140
M-14D-06242015-MS @ 1140
M-14D-06242015-MSD @ 1140
clean site, move to M-08R

1145: begin setup on M-08R, begin purge @ 1150
M-08R-06242015 @ ~~1150~~ 1215
clean site, lunch

1315: begin setup on M-07, begin purge @ 1326
M-07-06242015 @ 1355
clean site, move to M-09

Location UTC-Thomson Date 6-24-15

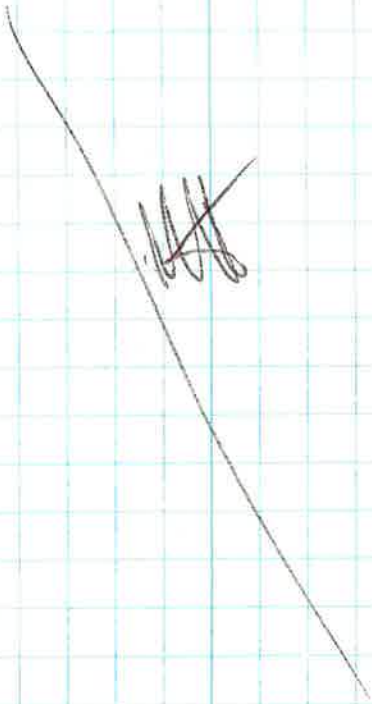
Project / Client

1400: begin setup on M-09, begin purge @ 1408
M-09-06242015 @ 1440
cleanup site, proceed to gauge non-sampled wells

1515: pause for thunderstorm

1600: resume gauging wells

1650: sign out w/ tenant, depart site



AECOM

Well Purging and Sample Collection Form

Sample ID: MW-02-06232015

Project No.:

Site Name: VTC-Thomson

Date: 6-23-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-20
Intake Depth: 12.5
Depth to Bottom (DTB): 20.15
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): NA
Depth to Water (DTW): 6.47

Purge Method
☒ Low Flow/Low Stress (Volumetric)
☐ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1127	7.02	-	5.35	0.318	0.67	25.81	-46	53.5	none	N
1	1132	7.19	0.25	5.39	0.323	6.45	25.12	-61	41.4	none	N
2	1137	7.68	0.50	5.18	0.321	0.37	25.08	-55	37.4	none	N
3	1142	7.95	0.75	5.11	0.325	0.33	24.93	-56	35.2	none	N
4	1147	8.48	1.00	5.08	0.342	0.31	25.00	-57	24.7	none	N
5	1152	8.73	1.25	5.08	0.349	0.29	24.87	-58	21.00	None	N
6	1157	9.03	1.50	5.07	0.342	0.26	24.84	-58	14.4	None	N
7	1202	9.28	1.75	5.08	0.334	0.24	24.76	-59	9.8	none	N

Sample and Purge Method Description:
Horiba U-51, Hach WLM, LaMotte 2020e, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3)	40 ml, glass
☐ Dissolved Gases (MEE)	( )	40 ml, glass
☐ Metals	( )	500 ml, plastic
☐ TOC	( )	40 ml, amber glass
☐ DOC	( )	40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( )	500 ml, plastic
☐ Sulfide	( )	250 ml, plastic

Sample Type
☒ Normal: sample time: 1205
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-23-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-02A-06232015

Project No.:

Site Name: VTC-Thomson

Date: 6-23-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval:
Intake Depth: 10
Depth to Bottom (DTB): 12.93
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): –
Depth to Water (DTW): 6.15

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1228	6.27	–	5.97	0.453	0.39	27.78	-79	345	brown	N
1	1233	6.49	0.25	6.01	0.464	0.28	26.48	-75	309	brown	N
2	1237	6.64	0.50	5.99	0.468	0.28	25.97	-72	177	light brown	N
3	1242	6.83	0.75	6.06	0.473	0.27	26.08	-73	47.5	clear	N
4	1247	6.97	1.00	6.06	0.475	0.25	26.25	-76	26.1	clear	N
5	1252	7.10	1.25	6.06	0.475	0.24	26.22	-78	19.0	clear	N
6	1257	7.25	1.50	6.06	0.472	0.23	26.23	-79	8.3	clear	N
7											

Sample and Purge Method Description:
Hach DR 900, Hach 2020we, Heron WLM, bladder pump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers
☒ VOC's (3) 40 ml, glass
☐ Dissolved Gases (MEE) ( ) 40 ml, glass
☐ Metals ( ) 500 ml, plastic
☐ TOC ( ) 40 ml, amber glass
☐ DOC ( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2 ( ) 500 ml, plastic
☐ Sulfide ( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1300
☐ Duplicate: sample time:
☐ MS/MSD: sample time:
☐ Equipment Blank: sample time:
☐ Field Blank: sample time:

Comments:

Signature: _____ **Date:** 6-23-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-04-062320 15

Project No.:

Site Name: VTC-Thomson

Date: 6-23-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-15
Intake Depth: 10
Depth to Bottom (DTB): 15.17
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): NA
Depth to Water (DTW): 5.25

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1403	5.89	–	4.79	0.086	1.12	24.67	237	2.6	clear	N
1	1408	6.31	0.25	4.60	0.098	0.90	22.51	275	1.7	clear	N
2	1413	6.87	0.50	4.44	0.097	0.80	22.70	293	1.5	clear	N
3	1418	7.16	0.75	~~4.26~~ MIN	0.105	0.79	22.67	313	1.3	clear	N
4	1423	7.50	1.00	3.96	0.109	0.74	22.55	337	2.7	clear	N
5	1428	7.81	1.25	4.03	0.107	0.70	22.43	340	1.8	clear	N
6	1433	8.09	1.50	4.13	0.104	0.67	22.56	340	1.5	clear	N
7	1438	8.36	1.75	4.22	0.101	0.62	22.47	336	1.9	clear	N

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020 we, Heron WLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers
☒ VOC's (3) 40 ml, glass
☐ Dissolved Gases (MEE) ( ) 40 ml, glass
☐ Metals ( ) 500 ml, plastic
☐ TOC ( ) 40 ml, amber glass
☐ DOC ( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2 ( ) 500 ml, plastic
☐ Sulfide ( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1500
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments: 3rd reading pH: 4.26

Signature: _____ **Date:** 6-23-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-04-06232015

Project No.:

Site Name: VIC-Thomson

Date: 6-23-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-15
Intake Depth: 10
Depth to Bottom (DTB): 15.17
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): NA
Depth to Water (DTW): 5.25

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1443	8.67	2.00	4.35	0.096	0.64	22.57	330	2.4	clear	N
1	1448	8.95	2.25	4.38	0.092	0.61	22.54	330	2.1	clear	N
2	1453	9.17	2.50	4.39	0.090	0.59	22.41	330	1.8	clear	N
3	1458	9.28	2.75	4.40	0.089	0.57	22.35	329	1.4	clear	N
4											
5											
6											
7											

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020 we, Heron WLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1500
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-23-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-06-062320 15

Project No.: 60

Site Name: UTC ~~Aero~~ Thomson

Date: 6-23-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-15
Intake Depth: 10
Depth to Bottom (DTB): 15.16
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): NA
Depth to Water (DTW): 5.64

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 225

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1646	6.26	–	6.04	0.179	0.72	24.66	-103	17.2	clear	N
1	1651	6.61	0.25	6.10	0.181	0.39	21.72	-126	10.2	clear	N
2	1656	7.25	0.50	6.02	0.174	0.30	21.11	-116	5.7	clear	N
3	1701	7.71	0.75	5.39	0.170	6.23	20.93	-92	7.0	clear	N
4	1706	8.28	1.00	6.18	0.156	0.63	21.72	-113	6.6	clear	N
5	1711	8.62	1.25	6.20	0.151	0.28	21.49	-123	6.5	clear	N
6	1716	9.08	1.50	6.16	0.144	0.26	21.49	-121	6.3	clear	N
7	1721	9.43	1.75	6.13	0.140	0.24	21.48	-119	5.9	clear	N

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020 we, Hydra WLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1725
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-23-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-07-06242015

Project No.:

Site Name: VTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-13
Intake Depth: 9
Depth to Bottom (DTB): 13.12
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): —
Depth to Water (DTW): 1.19

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 200

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1326	1.91	—	6.00	0.193	2.47	27.92	42	2.3	clear	N
1	1331	2.59	0.25	5.47	0.194	0.84	27.54	37	6.3	clear	N
2	1336	2.81	0.50	5.44	0.191	0.61	27.9	33	4.1	clear	N
3	1341	3.00	0.75	5.45	0.192	0.55	28.26	28	4.7	clear	N
4	1346	3.15	1.00	5.47	0.194	0.58	28.46	25	4.2	clear	N
5	1351	3.28	1.25	5.43	0.195	0.61	28.50	26	3.4	clear	N
6											
7											

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020we, Heron WLM, Geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1355
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-24-15

AECOM

Well Purging and Sample Collection Form

Sample ID: MW-BR-06242015

Project No.:

Site Name: UTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-10
Intake Depth: 7.5
Depth to Bottom (DTB): 9.65
Source: ☐ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): —
Depth to Water (DTW): 0.72

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 200

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) -- ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1153	1.34	—	9.22	0.185	1.42	28.98	-69	3.0	clear	N
1	1158	1.97	0.25	9.48	0.187	0.75	28.64	-92	2.2	clear	N
2	1203	2.32	0.50	9.65	0.187	0.54	28.53	-102	1.8	clear	N
3	1208	2.57	0.75	9.71	0.189	0.51	28.32	-109	1.6	clear	N
4	1213	2.63	1.00	9.63	0.185	0.47	28.57	-105	1.4	clear	N
5											
6											
7											

Sample and Purge Method Description:
Horiba U-51, L. Meth 2020we, Heron WLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1215
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-24-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-09-062415

Project No.:

Site Name: UTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-14
Intake Depth: 9.5
Depth to Bottom (DTB): 13.78
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): —
Depth to Water (DTW): 1.30

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 225

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1408	1.97	—	5.47	6.076	1.32	25.91	37	13.5	clear	N
1	1413	3.02	0.25	5.37	0.079	0.70	23.50	31	9.7	clear	N
2	1418	3.82	0.50	5.34	0.077	0.58	23.54	26	8.6	clear	N
3	1423	4.25	0.75	5.33	0.077	0.49	23.76	24	8.3	clear	N
4	1428	4.43	1.00	5.24	0.078	0.45	23.64	25	7.7	clear	N
5	1433	4.60	1.25	5.33	0.078	0.43	23.75	28	7.5	clear	N
6	1438	4.77	1.50	5.32	0.079	0.45	23.81	33	7.2	clear	N
7											

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020we, Heron WLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1440
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-24-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-10-06242015

Project No.:

Site Name: UTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-10
Intake Depth: 7.5
Depth to Bottom (DTB): 9.20
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): –
Depth to Water (DTW): 0.93

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	0917	1.81	–	5.80	0.303	1.59	26.89	45	17.8	clear	N
1	0922	3.25	0.25	5.82	0.316	0.60	27.71	42	11.2	clear	N
2	0927	4.17	0.50	5.86	0.311	6.84	28.35	55	6.1	clear	N
3	0932	4.41	0.75	5.86	0.310	1.00	28.70	61	3.3	clear	N
4	0937	4.41	1.00	5.84	0.312	1.05	28.66	58	3.0	clear	N
5	0942	4.40	1.25	5.84	0.314	0.95	28.70	55	2.7	clear	N
6											
7											

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020 we, Horan WLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers
☒ VOC's (3) 40 ml, glass
☐ Dissolved Gases (MEE) ( ) 40 ml, glass
☐ Metals ( ) 500 ml, plastic
☐ TOC ( ) 40 ml, amber glass
☐ DOC ( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2 ( ) 500 ml, plastic
☐ Sulfide ( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 0945
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-24-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-11-06232015

Project No.:

Site Name: VTC-Thomson

Date: 6-23-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 5-15
Intake Depth: 10
Depth to Bottom (DTB): 14.55
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): —
Depth to Water (DTW): 2.20

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1518	3.03	—	5.46	0.254	0.96	25.84	-41	4.3	clear	N
1	1523	3.94	0.25	5.59	0.264	0.35	25.09	-65	2.4	clear	N
2	1528	4.39	0.50	5.60	0.253	0.34	25.17	-69	9.0	clear	N
3	1533	4.66	0.75	5.58	0.235	0.28	25.12	-62	1.9	clear	N
4	1538	4.88	1.00	5.52	0.214	0.23	24.98	-52	1.2	clear	N
5	1543	4.93	1.25	5.51	0.211	0.24	24.92	-50	1.4	clear	N
6	1548	5.03	1.50	5.50	0.208	0.24	24.90	-46	1.2	clear	N
7											

Sample and Purge Method Description:
Horiba U-51 Heron WLM, LaMotte 2020 wi, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers
☒ VOC's (3) 40 ml, glass
☐ Dissolved Gases (MEE) ( ) 40 ml, glass
☐ Metals ( ) 500 ml, plastic
☐ TOC ( ) 40 ml, amber glass
☐ DOC ( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2 ( ) 500 ml, plastic
☐ Sulfide ( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1550
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-23-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-14D-06242015

Project No.:

Site Name: UTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 15-25
Intake Depth: 20
Depth to Bottom (DTB): 25.42
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): –
Depth to Water (DTW): 0.41

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1107	1.03	–	5.75	0.230	1.46	25.86	58	8.7	clear	N
1	1112	1.50	0.25	5.74	0.238	0.74	25.01	44	7.1	clear	N
2	1117	1.63	0.50	5.81	0.235	0.59	24.83	46	7.1	clear	N
3	1122	1.73	0.75	5.71	0.229	0.45	24.73	54	7.5	clear	N
4	1127	1.80	1.00	5.71	0.224	0.42	24.63	55	6.2	clear	N
5	1132	1.88	1.25	5.63	0.222	6.38	24.64	65	6.3	clear	N
6											
7											

Sample and Purge Method Description:
Horiba U-51, LaMotte 2020 we, Heron NLM, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(9)	40 ml, glass
☐ Dissolved Gases (MEE)	( )	40 ml, glass
☐ Metals	( )	500 ml, plastic
☐ TOC	( )	40 ml, amber glass
☐ DOC	( )	40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( )	500 ml, plastic
☐ Sulfide	( )	250 ml, plastic

Sample Type
☒ Normal: sample time: 1140
☐ Duplicate: sample time:
☒ MS/MSD: sample time: 1140
☐ Equipment Blank: sample time:
☐ Field Blank: sample time:

Comments:

Signature: _____ **Date:** 6-24-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-17-06242015

Project No.:

Site Name: VTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 50-60
Intake Depth: 55
Depth to Bottom (DTB): 59.27
Source: ☐ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): NA
Depth to Water (DTW): 0.28

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	1012	0.86	–	5.96	0.094	2.05	26.64	89	2.2	clear	N
1	1017	1.16	0.25	5.81	0.092	0.83	24.81	133	1.8	clear	N
2	1022	1.22	0.50	5.82	0.089	0.73	24.48	152	1.2	clear	N
3	1027	1.28	0.75	5.81	0.086	0.57	24.32	165	1.1	clear	N
4	1032	1.34	1.00	5.77	0.086	0.60	24.26	175	1.5	clear	N
5	1037	1.38	1.25	5.77	0.086	0.54	24.18	176	1.5	clear	N
6	1042	1.42	1.50	5.82	0.087	0.52	24.13	178	1.4	clear	N
7											

Sample and Purge Method Description:
Horiba U-51 LaMotte 2020 wi, Horiba WLM, ge pump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(3) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 1045
☐ Duplicate: sample time: _____
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-24-15

AECOM

Well Purging and Sample Collection Form

Sample ID: M-18-06242015

Project No.:

Site Name: VTC-Thomson

Date: 6-24-15

Well Information
Well Diameter: 2"
Well Material: PVC

Screen Interval: 29-39
Intake Depth: 34
Depth to Bottom (DTB): 38.40
Source: ☒ Well Tag ☐ Well Table

Well Measurements
Depth to NAPL (DTN): —
Depth to Water (DTW): 0.39

Purge Method
☐ Low Flow/Low Stress (Volumetric)
☒ Low Flow/Volume (Micropurge)
Purge Rate 250

Purge Volume Calculations
Where: gals/ft: 2" well = 0.16 gals
4" well = 0.65 gals
Gallons/well vol.= ( ) – ( ) x ( )
DTB. DTW gals/ft
Gallons/well volume:

Well Purged with:
☒ Pump
☐ Grundfos 2" Redi-Flo
☒ Peristaltic
☐ Bladder Pump
☒ Tubing
☒ Polyethylene
☐ Teflon

Purge Vol. #	Time	Depth to Water (ft.)	Purge Vol. (gals)	pH (SU)	Cond. (mS/cm)	DO (mg/L)	Temp. (°C)	ORP (mV)	Turb. (NTU)	Color	Odor (Y/N)
Initial	0829	1.50	—	5.80	0.106	2.10	24.54	80	7.1	clear	N
1	0834	2.84	0.25	5.95	0.104	1.02	24.32	27	5.5	clear	N
2	0839	4.16	0.50	5.97	0.098	0.77	24.24	21	4.7	clear	N
3	0844	5.49	0.75	5.99	0.098	0.64	23.96	17	4.3	clear	N
4	0849	6.67	1.00	5.98	0.096	0.57	23.82	18	4.1	clear	N
5	0854	8.16	1.25	5.99	0.095	0.50	23.59	17	3.6	clear	N
6	0859	9.08	1.50	6.00	0.094	0.46	23.54	15	3.3	clear	N
7	0904	9.69	1.75	5.99	0.093	0.46	23.57	16	3.0	clear	N

Sample and Purge Method Description:
Horiba U-51, Heron WLM, LaMotte 2020we, geopump

Field Test Results: Fe^{2+} _____ mg/L (Hach Test Kit) DO _____ mg/L (Hach Test Kit)

Sample Analysis and Containers

☒ VOC's	(6) 40 ml, glass
☐ Dissolved Gases (MEE)	( ) 40 ml, glass
☐ Metals	( ) 500 ml, plastic
☐ TOC	( ) 40 ml, amber glass
☐ DOC	( ) 40 ml, amber glass
☐ Alkalinity, Chloride, SO4, NO3, NO2	( ) 500 ml, plastic
☐ Sulfide	( ) 250 ml, plastic

Sample Type
☒ Normal: sample time: 0910
☒ Duplicate: sample time: 0910
☐ MS/MSD: sample time: _____
☐ Equipment Blank: sample time: _____
☐ Field Blank: sample time: _____

Comments:

Signature: _____ **Date:** 6-24-15

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 1 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: AECOM
Address: 3160 Peachtree St NE Suite 500
City: Atlant State: GA Zip: 30309
Project Contact: Tracey Hall E-mail: Tracey.Hall@aecom.com
Phone#: 770-846-8716
Sampler(s) Name(s) (Printed): Michael Hutchinson

Project Information

Project Name: UTC-Thomson
Street: 1884 Warrenton Hwy
City: Thomson State: GA
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

V8260-SL

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	V8260-SL	LAB USE ONLY
	M-02-06232015	6-23-15	1265	MH	GW	3			X							X	
	M-02A-06232015	6-23-15	1300	"	"	3			X							X	
	M-04-06232015	6-23-15	1500			3			X							X	
	M-11-06232015	6-23-15	1550			3			X							X	
	M-06-06232015	6-23-15	1725			3			X							X	
	M-18-06242015	6-24-15	0910			3			X							X	
	M-18-06242015@DUP	6-24-15	0910			3			X							X	
	M-10-06242015	6-24-15	0945			3			X							X	
	M-17-06242015	6-24-15	1045			3			X							X	
	M-14D-06242015	6-24-15	1140			3			X							X	
	M-14D-06242015-MS	6-24-15	1140			3			X							X	
	M-14D-06242015-MSD	6-24-15	1140			3			X							X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Date Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1	6-25-15	2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 2 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: AECOM
Address: 860 Peachtree St NE Suite 500
City: Atlanta State: GA Zip: 30309
Project Contact: Tracey Hull E-mail: Tracy.Hull@aecom.com
Phone#: 770-846-8716
Sampler(s) Name(s) (Printed): Michael Hutchinson

Project Information

Project Name: UTC - Thomson
Street: 1884 Warrenton Hwy
City: Thomson State: GA
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

V8260-SL

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	V8260-SL	LAB USE ONLY
	M-08R-06242015	6-24-15	1215	MH	GW	3			X							X	
	M-07-06242015	6-24-15	1355	MH	GW	3			X							X	
	M-09-06242015	6-24-15	1440	MH	GW	3			X							X	
	Trip Blank-01	—	—		WW	2										X	
	Trip Blank-02	—	—		WW	2										X	
	Temp Blank	—	—		WW												

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
	6-25-15	2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

AECOM

S3NA-509-FM2 Instrument Calibration Log

Instrument Information	
Instrument Name: Horiba U-51, LaMotte 2020	Manufacturer: Horiba
Serial Number: WHC25XR9	Last Service Date: NA
Parameter(s): pH, conductivity	Calibration Gas: NA
Calibration Procedure: Autocal Lot # C3580658 ex 1/2016 pH-4.00 0.0 NTU 4.49 mS/cm 10 NTU	

Daily Calibration Results	
Date: 6-23-15	Calibration Result: pH: 3.90 mS: 4.53 9.9 NTU
Name: Michael Hutchinson	Signature:
Notes:	
Date: 6-24-15	Calibration Result: pH: 3.85 mS: 4.47 9.9 NTU
Name: Michael Hutchinson	Signature:
Notes:	
Date:	Calibration Result:
Name:	Signature:
Notes:	
Date:	Calibration Result:
Name:	Signature:
Notes:	

Project: UTC-Thomson
Job No.:
Date: 6-23-15
Operator: Michael Hutchinson
Instrument: Horiba U-51
LaMotte 2020 WI
Calibration:

AECOM

Americas

Tailgate Safety Meeting Log

S3NA-210-FM1

This sign-in log documents the topics of the tailgate safety briefing and individual attendance at the briefing. Personnel who perform work operations on site are required to attend each safety briefing and acknowledge their ability to ask questions and receipt of such briefings daily. Please provide a brief narrative of the following topics as applicable to the Project.

Michael Hutchinson
Name of Meeting Leader

Signature

PROJECT NAME & LOCATION

UTC-Thomson

PROJECT NUMBER	DATE/TIME	WEATHER CONDITIONS
	6-23-15 / 1030	90's, Sunny

TOPIC
Discussion – check all that apply

Today's Scope of Work (All tasks)	☒ yes	☐ n/a	Access / Egress / Slips, Trips, & Falls	☒ yes	☐ n/a
Schedule / New Work / Scope Changes	☒ yes	☐ n/a	Smoking, Eating, & Drinking	☒ yes	☐ n/a
Reviewed Procedures, Task Hazard Analysis, etc.	☒ yes	☐ n/a	Washroom / Facilities Location	☒ yes	☐ n/a
Emergency Action Plan & Procedures	☒ yes	☐ n/a	Heat/Cold Stress	☒ yes	☐ n/a
Communications Protocol	☒ yes	☐ n/a	Exclusion Areas Barricades / Cones	☒ yes	☐ n/a
Required Personal Protection Equipment	☒ yes	☐ n/a	Required Permits, Passes, Keys, etc.	☒ yes	☐ n/a
Required Monitoring / Instruments	☐ yes	☒ n/a	Decontamination Procedures / Investigation-Derived Waste Management	☒ yes	☐ n/a
Fitness for work / Fatigue	☒ yes	☐ n/a	Equipment Inspections/Safety Checklists	☐ yes	☒ n/a
Site Control / Work Zones / Security	☒ yes	☐ n/a			

COMMENTS / OTHER

Tailgate Meeting Attendees

Print Name	Signature
Michael Hutchinson	

AECOM

SIX QUESTIONS FOR SUCCESS – As your final preparedness, take two minutes to think through and answer these questions:

1. What are we about to do? GW sample
2. What equipment are we going to use? Horiba U-51, LaMotte 2020 we, geopump, hand tools
3. Have I/we been trained to use this equipment? Yes
4. Have I/we been trained to do this job? Yes
5. How can I/we be hurt? Slips/trips/falls/biologicals/contamination
6. How can I/we prevent this incident? PPE, take care w/ each movement

If you and your team aren't prepared to do the assigned work, STOP WORK, and take time to properly prepare.

END OF DAY SIGN-OFF:

Site Safety Officer Signature

☒ No Incidents Occurred

☐ Number of Near Misses/Observations Reported

☐ All Incidents Reported the Incident Reporting Line

LESSONS LEARNED / COMMENTS / OTHER

AECOM

Americas

Tailgate Safety Meeting Log

S3NA-210-FM1

This sign-in log documents the topics of the tailgate safety briefing and individual attendance at the briefing. Personnel who perform work operations on site are required to attend each safety briefing and acknowledge their ability to ask questions and receipt of such briefings daily. Please provide a brief narrative of the following topics as applicable to the Project.

Michael Hutchinson
Name of Meeting Leader

Signature

PROJECT NAME & LOCATION
UTC - Thomson

PROJECT NUMBER	DATE/TIME	WEATHER CONDITIONS
	6-24-15 / 0730	90's, sunny / thunderstorms

TOPIC
Discussion – check all that apply

Today's Scope of Work (All tasks)	☒ yes	☐ n/a	Access / Egress / Slips, Trips, & Falls	☒ yes	☐ n/a
Schedule / New Work / Scope Changes	☒ yes	☐ n/a	Smoking, Eating, & Drinking	☒ yes	☐ n/a
Reviewed Procedures, Task Hazard Analysis, etc.	☒ yes	☐ n/a	Washroom / Facilities Location	☒ yes	☐ n/a
Emergency Action Plan & Procedures	☒ yes	☐ n/a	Heat/Cold Stress	☒ yes	☐ n/a
Communications Protocol	☒ yes	☐ n/a	Exclusion Areas Barricades / Cones	☒ yes	☐ n/a
Required Personal Protection Equipment	☒ yes	☐ n/a	Required Permits, Passes, Keys, etc.	☒ yes	☐ n/a
Required Monitoring / Instruments	☐ yes	☒ n/a	Decontamination Procedures / Investigation-Derived Waste Management	☒ yes	☐ n/a
Fitness for work / Fatigue	☒ yes	☐ n/a	Equipment Inspections/Safety Checklists	☐ yes	☒ n/a
Site Control / Work Zones / Security	☒ yes	☐ n/a			

COMMENTS / OTHER

Tailgate Meeting Attendees

Print Name	Signature
Michael Hutchinson	

AECOM

SIX QUESTIONS FOR SUCCESS – As your final preparedness, take two minutes to think through and answer these questions:

1. What are we about to do? GW Sample
2. What equipment are we going to use? Horiba U-51, LaMotte 2020 we, geopump, hand tools
3. Have I/we been trained to use this equipment? Yes
4. Have I/we been trained to do this job? Yes
5. How can I/we be hurt? Slips/trips/falls/biologicals/contamination
6. How can I/we prevent this incident? PPE, take care w/ each movement

If you and your team aren't prepared to do the assigned work, STOP WORK, and take time to properly prepare.

END OF DAY SIGN-OFF:

Site Safety Officer Signature

☒ No Incidents Occurred

☐ Number of Near Misses/Observations Reported

☐ All Incidents Reported the Incident Reporting Line

LESSONS LEARNED / COMMENTS / OTHER

Appendix B

Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. GA2206970129	Manifest Document No. NONHAZ46321	2. Page 1 of

3. Generator's Name and Mailing Address United Technologies 1900 Warrenton Highway Thomson GA 30824 4. Generator's Phone (404) 358-4700		A. State Transporter's ID SAME B. Transporter 1 Phone
5. Transporter 1 Company Name Clean Harbors Environmental Services Inc	6. US EPA ID Number MAD039322250	C. State Transporter's ID D. Transporter 2 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Facility's ID
9. Designated Facility Name and Site Address Clean Harbors Chattanooga LLC 3200 Cummings Road Chattanooga, TN 37419	10. US EPA ID Number TND982141392	F. Facility's Phone (423) 821-5926

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT REGULATED MATERIAL (WATER)	1	DM	200	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
11aCH29199	

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE #: (800) 483-3478
GENERATOR: United Technologies

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date: Month	Day	Year
[illegible]	[signature]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year
John Vaughenbach	[signature]	6	30	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date: Month	Day	Year

Appendix C

Laboratory Analytical Reports and Data Validation Reports

AECOM
One Midtown Plaza
1360 Peachtree St. N.E.
Suite 500
Atlanta, GA 30309

404.965.9600 tel
404.965.9605 fax

Memorandum

To	Tracey Hall – AECOM Atlanta	Page 1
CC		
Subject	Level 2 Data Validation for UTC-Thomson Groundwater Samples	
From	Robert Davis – AECOM Atlanta	
Date	July 23, 2015	

Limited validation was performed on one data package from Accutest Laboratories in Orlando, Florida for groundwater samples. The samples were collected at the former United Technologies Automotive (UTA) facility located at 1884 Warrenton Highway, Thomson, Georgia on June 23-24, 2015.

The data were reviewed for conformance to method specifications and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999 as they applied to the methodology used. Inorganic data were evaluated based on method specifications and the validation criteria set forth in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540-R-04-004, January 2010, as they applied to the analytical methods employed. Field duplicate relative percent difference (RPD) review and applicable control limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, December 1996.

- Method 8260B - Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS).

Review Elements

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Holding times/sample preservation
- Method blanks/trip blanks
- Surrogate results
- Laboratory control sample (LCS) results
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Field precision results

Samples

SAS Environmental, Inc. collected the following groundwater samples from the former UTA site in Thomson, Georgia as reported under the following laboratory job number.

FA25584

Lab ID	Sample ID	Lab ID	Sample ID
FA25584-1	M-02-06232015	FA25584-9	M-17-06242015
FA25584-2	M-02A-06232015	FA25584-10	M-14D-06242015
FA25584-3	M-04-06232015	FA25584-11	M-08R-06242015
FA25584-4	M-11-06232015	FA25584-12	M-07-06242015
FA25584-5	M-06-06232015	FA25584-13	M-09-06242015
FA25584-6	M-18-06242015	FA25584-14	Trip Blank-01
FA25584-7	M-18-06242015-DUP	FA25584-15	Trip Blank-02
FA25584-8	M-10-06242015		

Analytical Results

In general, the data results are valid as reported and may be used for decision making purposes. Sample data were qualified with either a "J" (estimated) or "UJ" (the analyte was not detected; however, the reported quantitation limit is approximated and may be inaccurate or imprecise.) See Table 1.

Positive results less than the reporting limit, but greater than the method detection limit (MDL) were qualified "J", as estimated concentrations, due to increased uncertainty near the detection limit. These "J" qualifiers were maintained in the data validation.

Discussion

Agreement of Analyses Conducted with COC Requests

Laboratory sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC. No discrepancies were noted.

Holding Times and Preservation

All samples were analyzed within the holding times required by the methods.

The sample cooler temperatures upon receipt by the laboratory were within the acceptable range of 4±2 ^{o}C.

All samples that required chemical preservation were chemically preserved to the proper pH.

Method Blanks/Trip Blanks

No analytes were detected at concentrations exceeding the reporting limits for the method blanks or trip blanks with the following exceptions:

- Method 8260B: Trip blank 02 had detection for Toluene. All of the associated samples were non-detect for Toluene or had detection greater than 10 times the Toluene concentration; therefore, data qualification was not required.

Surrogate Results

The surrogate recoveries were acceptable for all organic analyses.

Laboratory Control Sample Results

Laboratory control standards (LCS) for all of the analyses were within the quality control limits with the following exceptions:

- Method 8260B: The LCS recoveries associated with batch VN3852 were outside of the quality control limits biased low for 2-Chloroethyl Vinyl Ether and Vinyl Acetate. All of the associated samples were qualified. See Table 1.

Matrix Spike/Matrix Spike Duplicate Results

Matrix spike and matrix spike duplicates that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

The matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision on client samples were all within the advisory limits with the following exceptions:

- Method 8260B: The MS and/or MSD recoveries were outside of the quality control limits biased low for Bromobenzene, 2-Chloroethyl vinyl ether, and Hexachlorobutadiene in sample M-14D-06242015. The Bromobenzene, 2-Chloroethyl vinyl ether, and Hexachlorobutadiene results in sample M-14D-06242015 were qualified. See Table 1.

Field Precision Results

A field duplicate was collected on sample M-18-06242015. See Table 2 for the RPDs for all compounds for which there were detections. The RPDs between the original and field duplicates were all within the acceptance criteria of 30%.

Table 1

Qualified Analytical Data

Sample ID	Method	Analyte	Lab Result	Lab Qual.	Validated Result	Validation Qualifier[1]	Units	Reason Codes[2]
M-02-06232015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-02-06232015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-02A-06232015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-02A-06232015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-04-06232015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-04-06232015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-11-06232015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-11-06232015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-06-06232015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-06-06232015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-18-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-18-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-18-06242015DUP	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-18-06242015DUP	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-10-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-10-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-17-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-17-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-14D-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS MS
M-14D-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-14D-06242015	8260B	Bromobenzene	ND		1.0	UJ	µg/L	MS
M-14D-06242015	8260B	Hexachlorobutadiene	ND		2.0	UJ	µg/L	MS
M-08R-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-08R-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-07-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-07-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS
M-09-06242015	8260B	2-Chloroethyl vinyl ether	ND		5.0	UJ	µg/L	LCS
M-09-06242015	8260B	Vinyl Acetate	ND		10	UJ	µg/L	LCS

[1]: USEPA-defined data validation qualifiers applied in this data evaluation:

UJ: The analyte was not detected; however, the reported quantitation limit is approximated and may be inaccurate or imprecise.

[2]: Reason Codes:

MS: The matrix spike recovery was outside of the quality control limits.

LCS: The laboratory control standard was outside of the quality control limits.

Table 2

Field Precision

Method	Compound	M-18-06242015	M-18-06242015-DUP	Units	% RPD
8260B	1,1-Dichloroethylene	0.65 J	0.71 J	µg/L	8.8
8260B	Trichloroethylene	1.5	1.5	µg/L	0

% RPD: Relative percent difference between the primary sample result and the sample duplicate result.

Southeast
ACCUTEST LABORATORIES

Reissue #1
07/08/15

Technical Report for

United Technologies Corporation

AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Accutest Job Number: FA25584

Sampling Dates: 06/23/15 - 06/24/15

Report to:

AECOM

tracey.hall@aecom.com
robert.davis@aecom.com
ATTN: Tracey Hall

Total number of pages in report: **75**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

July 8, 2015

Mr. Rob Davis
AECOM
1360 Peachtree St NE
Suite 500
Atlanta, GA 30309

RE: Accutest job FA25584 Reissue

Mr. Davis,

The final report for job number FA25584 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

The 8260 list has been revised.

Accutest apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

Sections: 1 2 3 4 5 6

Table of Contents

Sample Summary

United Technologies Corporation

Job No: FA25584

AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA25584-1	06/23/15	12:05	MH	06/26/15	AQ	Ground Water	M-02-06232015
FA25584-2	06/23/15	13:00	MH	06/26/15	AQ	Ground Water	M-02A-06232015
FA25584-3	06/23/15	15:00	MH	06/26/15	AQ	Ground Water	M-04-06232015
FA25584-4	06/23/15	15:50	MH	06/26/15	AQ	Ground Water	M-11-06232015
FA25584-5	06/23/15	17:25	MH	06/26/15	AQ	Ground Water	M-06-06232015
FA25584-6	06/24/15	09:10	MH	06/26/15	AQ	Ground Water	M-18-06242015
FA25584-7	06/24/15	09:10	MH	06/26/15	AQ	Ground Water	M-18-06242015-DUP
FA25584-8	06/24/15	09:45	MH	06/26/15	AQ	Ground Water	M-10-06242015
FA25584-9	06/24/15	10:45	MH	06/26/15	AQ	Ground Water	M-17-06242015
FA25584-10	06/24/15	11:40	MH	06/26/15	AQ	Ground Water	M-14D-06242015
FA25584-10D	06/24/15	11:40	MH	06/26/15	AQ	Water Dup/MSD	M-14D-06242015
FA25584-10S	06/24/15	11:40	MH	06/26/15	AQ	Water Matrix Spike	M-14D-06242015
FA25584-11	06/24/15	12:15	MH	06/26/15	AQ	Ground Water	M-08R-06242015

Sample Summary
(continued)

United Technologies Corporation

Job No: FA25584

AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA25584-12	06/24/15	13:55	MH	06/26/15	AQ	Ground Water	M-07-06242015
FA25584-13	06/24/15	14:40	MH	06/26/15	AQ	Ground Water	M-09-06242015
FA25584-14	06/23/15	00:00	MH	06/26/15	AQ	Trip Blank Water	TRIP BLANK-01
FA25584-15	06/23/15	00:00	MH	06/26/15	AQ	Trip Blank Water	TRIP BLANK-02

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: United Technologies Corporation **Job No:** FA25584

Site: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, **Report Date:** 7/6/2015 6:15:03 PM

13 Sample(s), 2 Trip Blank(s) were collected on/between 06/23/2015 and 06/24/2015 and were received at Accutest SE on 06/26/2015 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA25584. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN3852

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25584-10MS, FA25584-10MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2-Chloroethyl Vinyl Ether, Vinyl Acetate are outside control limits.

Matrix Spike Recovery(s) for 2-Chloroethyl Vinyl Ether, Hexachlorobutadiene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl Vinyl Ether, Bromobenzene, Hexachlorobutadiene are outside control limits. Probable cause is due to matrix interference.

FA25584-1 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-1 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-1 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-2 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-2 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-2 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-3 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-3 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-3 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-4 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-4 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-4 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-5 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-5 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-5 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-6 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-6 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-6 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-7 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-7 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-7 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-8 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-8 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-8 for Vinyl Acetate: Associated BS recovery outside control limits.

FA25584-9 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.

FA25584-9 for Hexachlorobutadiene: Associated CCV outside control limits.

FA25584-9 for Vinyl Acetate: Associated BS recovery outside control limits.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN3852

FA25584-10 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.
FA25584-10 for Hexachlorobutadiene: Associated CCV outside control limits.
FA25584-10 for Vinyl Acetate: Associated BS recovery outside control limits.
FA25584-11 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.
FA25584-11 for Acetone: Associated CCV outside control limits.
FA25584-11 for Hexachlorobutadiene: Associated CCV outside control limits.
FA25584-11 for Vinyl Acetate: Associated BS recovery outside control limits.
FA25584-12 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.
FA25584-12 for Hexachlorobutadiene: Associated CCV outside control limits.
FA25584-12 for Vinyl Acetate: Associated BS recovery outside control limits.
FA25584-13 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.
FA25584-13 for Hexachlorobutadiene: Associated CCV outside control limits.
FA25584-13 for Vinyl Acetate: Associated BS recovery outside control limits.
FA25584-14 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.
FA25584-14 for Hexachlorobutadiene: Associated CCV outside control limits.
FA25584-14 for Vinyl Acetate: Associated BS recovery outside control limits.
FA25584-15 for 2-Chloroethyl Vinyl Ether: Associated BS recovery outside control limits.
FA25584-15 for Hexachlorobutadiene: Associated CCV outside control limits.
FA25584-15 for Vinyl Acetate: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** VN3853

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA25430-5MS, FA25430-5MSD were used as the QC samples indicated.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 6, 2015
Kim Benham, Client Services (signature on file)

Narrative prepared by:

_____ Date: July 8, 2015
Lovelie Metzgar, QA Officer (signature on file)

Summary of Hits

Job Number: FA25584
Account: United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25584-1	**M-02-06232015**					
Benzene		0.26 J	1.0	0.20	ug/l	SW846 8260B
sec-Butylbenzene		0.62 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		0.36 J	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.92 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene		0.41 J	1.0	0.20	ug/l	SW846 8260B
FA25584-2	**M-02A-06232015**					
sec-Butylbenzene		0.24 J	1.0	0.20	ug/l	SW846 8260B
FA25584-3	**M-04-06232015**					
No hits reported in this sample.						
FA25584-4	**M-11-06232015**					
No hits reported in this sample.						
FA25584-5	**M-06-06232015**					
Toluene		6.6	1.0	0.40	ug/l	SW846 8260B
FA25584-6	**M-18-06242015**					
1,1-Dichloroethylene		0.65 J	1.0	0.27	ug/l	SW846 8260B
Trichloroethylene		1.5	1.0	0.22	ug/l	SW846 8260B
FA25584-7	**M-18-06242015-DUP**					
1,1-Dichloroethylene		0.71 J	1.0	0.27	ug/l	SW846 8260B
Trichloroethylene		1.5	1.0	0.22	ug/l	SW846 8260B
FA25584-8	**M-10-06242015**					
Benzene		0.28 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethylene		0.71 J	1.0	0.27	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		10.2	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene		61.1	1.0	0.22	ug/l	SW846 8260B
Vinyl Chloride		0.98 J	1.0	0.25	ug/l	SW846 8260B
FA25584-9	**M-17-06242015**					
1,1-Dichloroethane		2.1	1.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: FA25584
Account: United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,1-Dichloroethylene		39.5	1.0	0.27	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		4.6	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene		74.0	1.0	0.22	ug/l	SW846 8260B
FA25584-10	**M-14D-06242015**					
Benzene		2.3	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.83 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethylene		9.2	1.0	0.27	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		25.2	1.0	0.22	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.56 J	1.0	0.21	ug/l	SW846 8260B
Trichloroethylene		581	10	2.2	ug/l	SW846 8260B
Vinyl Chloride		1.5	1.0	0.25	ug/l	SW846 8260B
FA25584-11	**M-08R-06242015**					
Acetone [a]		25.0	25	10	ug/l	SW846 8260B
1,1-Dichloroethylene		0.34 J	1.0	0.27	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		1.1	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene		6.7	1.0	0.22	ug/l	SW846 8260B
FA25584-12	**M-07-06242015**					
Benzene		0.80 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.75 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethylene		8.6	1.0	0.27	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		11.6	1.0	0.22	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.32 J	1.0	0.21	ug/l	SW846 8260B
Trichloroethylene		59.0	1.0	0.22	ug/l	SW846 8260B
Vinyl Chloride		1.7	1.0	0.25	ug/l	SW846 8260B
FA25584-13	**M-09-06242015**					
Benzene		1.4	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		40.5	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		0.68 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethylene		698	10	2.7	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		11.7	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene		11.5	1.0	0.22	ug/l	SW846 8260B
FA25584-14	**TRIP BLANK-01**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA25584
Account: United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25584-15	**TRIP BLANK-02**					
Toluene		0.53 J	1.0	0.40	ug/l	SW846 8260B

(a) Associated CCV outside control limits.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: M-02-06232015
Lab Sample ID: FA25584-1 **Date Sampled:** 06/23/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086487.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.26	1.0	0.20	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	0.62	1.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-02-06232015		
Lab Sample ID:	FA25584-1	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	0.36	1.0	0.20	ug/l	J
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.92	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.41	1.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-02-06232015		
Lab Sample ID:	FA25584-1	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-02A-06232015		
Lab Sample ID:	FA25584-2	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086488.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	0.24	1.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-02A-06232015		
Lab Sample ID:	FA25584-2	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-02A-06232015		
Lab Sample ID:	FA25584-2	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-04-06232015		
Lab Sample ID:	FA25584-3	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086489.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-04-06232015		
Lab Sample ID:	FA25584-3	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-04-06232015		
Lab Sample ID:	FA25584-3	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-11-06232015
Lab Sample ID: FA25584-4 **Date Sampled:** 06/23/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086490.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-11-06232015		
Lab Sample ID:	FA25584-4	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-11-06232015		
Lab Sample ID:	FA25584-4	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-06-06232015
Lab Sample ID: FA25584-5
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Date Sampled: 06/23/15
Date Received: 06/26/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086491.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-06-06232015		
Lab Sample ID:	FA25584-5	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	6.6	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-06-06232015		
Lab Sample ID:	FA25584-5	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-18-06242015
Lab Sample ID: FA25584-6 **Date Sampled:** 06/24/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086492.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	0.65	1.0	0.27	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-18-06242015		
Lab Sample ID:	FA25584-6	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	1.5	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-18-06242015		
Lab Sample ID:	FA25584-6	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-18-06242015-DUP
Lab Sample ID: FA25584-7 **Date Sampled:** 06/24/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086493.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	0.71	1.0	0.27	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-18-06242015-DUP		
Lab Sample ID:	FA25584-7	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	1.5	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-18-06242015-DUP		
Lab Sample ID:	FA25584-7	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-10-06242015		
Lab Sample ID:	FA25584-8	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086494.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.28	1.0	0.20	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	0.71	1.0	0.27	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	10.2	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-10-06242015		
Lab Sample ID:	FA25584-8	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	61.1	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	0.98	1.0	0.25	ug/l	J
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-10-06242015		
Lab Sample ID:	FA25584-8	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-17-06242015		
Lab Sample ID:	FA25584-9	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086497.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	2.1	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	39.5	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.6	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-17-06242015		
Lab Sample ID:	FA25584-9	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	74.0	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-17-06242015		
Lab Sample ID:	FA25584-9	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-14D-06242015
Lab Sample ID: FA25584-10 **Date Sampled:** 06/24/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086495.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2	N0086496.D	10	06/30/15	RB	n/a	n/a	VN3852

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	2.3	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.83	1.0	0.20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	9.2	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	25.2	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.56	1.0	0.21	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-14D-06242015		
Lab Sample ID:	FA25584-10	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	581 [c]	10	2.2	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	1.5	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-14D-06242015		
Lab Sample ID:	FA25584-10	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	118%	79-125%
2037-26-5	Toluene-D8	96%	96%	85-112%
460-00-4	4-Bromofluorobenzene	103%	100%	83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-08R-06242015		
Lab Sample ID:	FA25584-11	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086498.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	25.0	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [b]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	0.34	1.0	0.27	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	1.1	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-08R-06242015		
Lab Sample ID:	FA25584-11	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	6.7	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-08R-06242015		
Lab Sample ID:	FA25584-11	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside control limits.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-07-06242015
Lab Sample ID: FA25584-12 **Date Sampled:** 06/24/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086499.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.80	1.0	0.20	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.75	1.0	0.20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	8.6	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	11.6	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.32	1.0	0.21	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-07-06242015		
Lab Sample ID:	FA25584-12	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	59.0	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	1.7	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-07-06242015		
Lab Sample ID:	FA25584-12	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	118%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: M-09-06242015
Lab Sample ID: FA25584-13 **Date Sampled:** 06/24/15
Matrix: AQ - Ground Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086500.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2	N0086519.D	10	07/01/15	RB	n/a	n/a	VN3853

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	1.4	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	40.5	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.68	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	698 [b]	10	2.7	ug/l	
156-59-2	cis-1,2-Dichloroethylene	11.7	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-09-06242015		
Lab Sample ID:	FA25584-13	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [c]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	11.5	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	M-09-06242015		
Lab Sample ID:	FA25584-13	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	122%	120%	79-125%
2037-26-5	Toluene-D8	97%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	103%	83-118%

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2
(c) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK-01
Lab Sample ID: FA25584-14
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Date Sampled: 06/23/15
Date Received: 06/26/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086485.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-01		
Lab Sample ID:	FA25584-14	**Date Sampled:**	06/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-01		
Lab Sample ID:	FA25584-14	**Date Sampled:**	06/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK-02
Lab Sample ID: FA25584-15 **Date Sampled:** 06/23/15
Matrix: AQ - Trip Blank Water **Date Received:** 06/26/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086486.D	1	06/30/15	RB	n/a	n/a	VN3852
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-02		
Lab Sample ID:	FA25584-15	**Date Sampled:**	06/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	0.53	1.0	0.40	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-02		
Lab Sample ID:	FA25584-15	**Date Sampled:**	06/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/26/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA25584 PAGE 1 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: AECOM
Address: 1360 Peachtree St NE Suite 500
City: Atlant State: GA Zip: 30309
Project Contact: Tracey Hall E-mail: Tracy.Hall@aecom.com
Phone#: 770-846-8716
Sampler(s) Name(s) (Printed): Michael Hutchinson

Project Information

Project Name: JTL-Thomson
Street: 1884 Warrenton Hwy
City: Thomson State: GA
Project #
Fax #
Client Purchase Order #

Analytical Information

VOA160-SL

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Container Information	VOA160-SL	LAB USE ONLY
1	M-02-06232015	6-23-15	1265	MH	GW	3	HCl	X	
2	M-02A-06232015	6-23-15	1300			3	HCl	X	
3	M-04-06232015	6-23-15	1500			3	HCl	X	
4	M-11-06232015	6-23-15	1550			3	HCl	X	
5	M-06-06232015	6-23-15	1725			3	HCl	X	
6	M-18-06242015	6-24-15	0910			3	HCl	X	
7	M-18-06242015@DUP	6-24-15	0910			3	HCl	X	
8	M-10-06242015	6-24-15	0945			3	HCl	X	
9	M-17-06242015	6-24-15	1045			3	HCl	X	
	M-14D-06242015	6-24-15	1140			3	HCl	X	
10	M-14D-06242015-MS	6-24-15	1140			3	HCl	X	
	M-14D-06242015-MSD	6-24-15	1140			3	HCl	X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or LabLink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
	6-25-15/1640	2 FK	3 FK	6-26-15	4 Cooler @ Lab 09:15
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.0

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FA25584: Chain of Custody
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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA25584 PAGE 2 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: AECOM
Address: 360 Peachtree St NE Suite 500
City: Atlanta State: GA Zip: 30309
Project Contact: Tracy Hall E-mail: Tracy.Hall@aecom.com
Phone#: 770-846-8716
Sampler(s) Name(s) (Printed): Michael Hutchinson

Project Information

Project Name: UTC - Thomson
Street: 1884 Warrenton Hwy
City: Thomson State: GA
Project #
Fax #
Client Purchase Order #

Analytical Information

V8260-SL

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	Container Information: OTHER	NONE	HCl	MeOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	V8260-SL	LAB USE ONLY
11	M-08R-06242015	6-24-15	1215	MH	GW	3			X							X	
12	M-07-06242015	6-24-15	1355	MH	GW	3			X							X	
13	M-09-06242015	6-24-15	1440	MH	GW	3			X							X	
14	Trip Blank-01	—	—		WW	2										X	
15	Trip Blank-02	—	—		WW	2										X	
	Temp Blank	—	—		WW												

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
	6-25-15/1640	2 FX	3 FX	6-26-15	4 J-Corp (AIR) 09:15
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1 5

FA25584: Chain of Custody
Page 2 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA25584 CLIENT: AECOM PROJECT: WTC THOMSON

DATE/TIME RECEIVED: 6-26-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8029 4192 9921

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 6-29-15 REVIEWER SIGNATURE/DATE 06-29-15

NF 10/14

receipt confirmation 102914.xls

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FA25584: Chain of Custody

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FA25584: Chain of Custody
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Job Change FA25584

Requested Date:	7/7/2015	**Received Date:**	6/26/2015
Account Name:	United Technologies	**Due Date:**	7/3/2015
Project	AECOMGAA: UTC Thomson; 1884 Warrenton	**Deliverable:**	COMMBN
CSR:	sueb	**TAT (Days):**	14

==========

Sample #: FA25584-all

Change:
Change 8260 list to V8260STD

==========

Above Changes Per: Rob **Date/Time:** 7/7/2015 12:25:47 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

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FA25584: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3852-MB	N0086484.D	1	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3852-MB	N0086484.D	1	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3852-MB	N0086484.D	1	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Method Blank Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3853-MB	N0086512.D	1	07/01/15	RB	n/a	n/a	VN3853

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-13

CAS No.	Compound	Result	RL	MDL	Units	Q
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3852-BS	N0086482.D	1	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	116	93	50-147
107-02-8	Acrolein	125	107	86	31-154
107-13-1	Acrylonitrile	125	102	82	58-126
71-43-2	Benzene	25	23.5	94	81-122
108-86-1	Bromobenzene	25	22.2	89	80-121
74-97-5	Bromochloromethane	25	24.6	98	76-123
75-27-4	Bromodichloromethane	25	23.7	95	79-123
75-25-2	Bromoform	25	20.0	80	66-123
78-93-3	2-Butanone (MEK)	125	117	94	56-143
104-51-8	n-Butylbenzene	25	24.3	97	79-126
135-98-8	sec-Butylbenzene	25	25.0	100	83-133
98-06-6	tert-Butylbenzene	25	23.6	94	80-133
75-15-0	Carbon Disulfide	25	24.1	96	66-148
56-23-5	Carbon Tetrachloride	25	24.7	99	76-136
108-90-7	Chlorobenzene	25	24.1	96	82-124
75-00-3	Chloroethane	25	27.1	108	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	40.5	32*	56-122
67-66-3	Chloroform	25	22.9	92	80-124
95-49-8	o-Chlorotoluene	25	24.0	96	81-127
106-43-4	p-Chlorotoluene	25	24.1	96	83-130
124-48-1	Dibromochloromethane	25	23.3	93	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.1	80	64-123
106-93-4	1,2-Dibromoethane	25	23.2	93	75-120
75-71-8	Dichlorodifluoromethane	25	26.6	106	42-167
95-50-1	1,2-Dichlorobenzene	25	21.5	86	82-124
541-73-1	1,3-Dichlorobenzene	25	22.3	89	84-125
106-46-7	1,4-Dichlorobenzene	25	22.0	88	78-120
75-34-3	1,1-Dichloroethane	25	24.0	96	81-122
107-06-2	1,2-Dichloroethane	25	21.6	86	75-125
75-35-4	1,1-Dichloroethylene	25	24.6	98	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.0	92	78-120
156-60-5	trans-1,2-Dichloroethylene	25	20.8	83	76-127
78-87-5	1,2-Dichloropropane	25	22.8	91	76-124
142-28-9	1,3-Dichloropropane	25	22.3	89	80-118
594-20-7	2,2-Dichloropropane	25	25.6	102	74-139
563-58-6	1,1-Dichloropropene	25	24.6	98	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3852-BS	N0086482.D	1	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	23.5	94	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.0	100	80-120
100-41-4	Ethylbenzene	25	23.4	94	81-121
87-68-3	Hexachlorobutadiene	25	19.6	78	75-142
591-78-6	2-Hexanone	125	119	95	61-129
98-82-8	Isopropylbenzene	25	24.0	96	83-132
99-87-6	p-Isopropyltoluene	25	23.6	94	79-130
74-83-9	Methyl Bromide	25	30.3	121	59-143
74-87-3	Methyl Chloride	25	25.7	103	50-159
74-95-3	Methylene Bromide	25	23.8	95	78-119
75-09-2	Methylene Chloride	25	20.3	81	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	122	98	66-122
1634-04-4	Methyl Tert Butyl Ether	25	21.2	85	72-117
91-20-3	Naphthalene	25	22.9	92	63-132
103-65-1	n-Propylbenzene	25	25.3	101	82-133
100-42-5	Styrene	25	22.8	91	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	23.2	93	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	22.4	90	72-120
127-18-4	Tetrachloroethylene	25	22.6	90	76-135
108-88-3	Toluene	25	23.6	94	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.4	94	68-131
120-82-1	1,2,4-Trichlorobenzene	25	21.1	84	73-129
71-55-6	1,1,1-Trichloroethane	25	23.0	92	75-130
79-00-5	1,1,2-Trichloroethane	25	23.1	92	76-119
79-01-6	Trichloroethylene	25	24.0	96	81-126
75-69-4	Trichlorofluoromethane	25	29.7	119	71-156
96-18-4	1,2,3-Trichloropropane	25	24.3	97	77-120
95-63-6	1,2,4-Trimethylbenzene	25	23.9	96	79-120
108-67-8	1,3,5-Trimethylbenzene	25	23.7	95	79-120
108-05-4	Vinyl Acetate	125	51.2	41*	43-154
75-01-4	Vinyl Chloride	25	27.3	109	69-159
	m,p-Xylene	50	53.8	108	79-126
95-47-6	o-Xylene	25	24.7	99	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3852-BS	N0086482.D	1	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3853-BS	N0086510.D	1	07/01/15	RB	n/a	n/a	VN3853

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-35-4	1,1-Dichloroethylene	25	29.1	116	78-137

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	116%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25584-10MS	N0086504.D	10	06/30/15	RB	n/a	n/a	VN3852
FA25584-10MSD	N0086505.D	10	06/30/15	RB	n/a	n/a	VN3852
FA25584-10	N0086495.D	1	06/30/15	RB	n/a	n/a	VN3852
FA25584-10	N0086496.D	10	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Compound	FA25584-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1200	96	1250	1230	98	2	50-147/21
107-02-8	Acrolein	ND		1250	1160	93	1250	1470	118	24	31-154/29
107-13-1	Acrylonitrile	ND		1250	1180	94	1250	1140	91	3	58-126/16
71-43-2	Benzene	2.3		250	237	94	250	236	93	0	81-122/14
108-86-1	Bromobenzene	ND		250	210	84	250	197	79*	6	80-121/14
74-97-5	Bromochloromethane	ND		250	240	96	250	240	96	0	76-123/14
75-27-4	Bromodichloromethane	ND		250	237	95	250	237	95	0	79-123/19
75-25-2	Bromoform	ND		250	182	73	250	176	70	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	1360	109	1250	1440	115	6	56-143/18
104-51-8	n-Butylbenzene	ND		250	230	92	250	226	90	2	79-126/16
135-98-8	sec-Butylbenzene	ND		250	242	97	250	237	95	2	83-133/16
98-06-6	tert-Butylbenzene	ND		250	223	89	250	225	90	1	80-133/16
75-15-0	Carbon Disulfide	ND		250	178	71	250	182	73	2	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	246	98	250	253	101	3	76-136/23
108-90-7	Chlorobenzene	ND		250	231	92	250	228	91	1	82-124/14
75-00-3	Chloroethane	ND		250	298	119	250	310	124	4	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		1250	ND	0*	1250	ND	0*	nc	56-122/23
67-66-3	Chloroform	ND		250	243	97	250	250	100	3	80-124/15
95-49-8	o-Chlorotoluene	ND		250	234	94	250	231	92	1	81-127/15
106-43-4	p-Chlorotoluene	ND		250	224	90	250	225	90	0	83-130/15
124-48-1	Dibromochloromethane	ND		250	210	84	250	206	82	2	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	206	82	250	213	85	3	64-123/18
106-93-4	1,2-Dibromoethane	ND		250	225	90	250	220	88	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		250	316	126	250	352	141	11	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		250	207	83	250	208	83	0	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		250	217	87	250	211	84	3	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		250	215	86	250	214	86	0	78-120/15
75-34-3	1,1-Dichloroethane	0.83	J	250	251	100	250	251	100	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	253	101	250	259	104	2	75-125/14
75-35-4	1,1-Dichloroethylene	9.2		250	285	110	250	287	111	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	25.2		250	232	83	250	237	85	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.56	J	250	222	89	250	220	88	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	224	90	250	227	91	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		250	218	87	250	212	85	3	80-118/13
594-20-7	2,2-Dichloropropane	ND		250	238	95	250	235	94	1	74-139/17
563-58-6	1,1-Dichloropropene	ND		250	244	98	250	247	99	1	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25584-10MS	N0086504.D	10	06/30/15	RB	n/a	n/a	VN3852
FA25584-10MSD	N0086505.D	10	06/30/15	RB	n/a	n/a	VN3852
FA25584-10	N0086495.D	1	06/30/15	RB	n/a	n/a	VN3852
FA25584-10	N0086496.D	10	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Compound	FA25584-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	207	83	250	210	84	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	238	95	250	236	94	1	80-120/22
100-41-4	Ethylbenzene	ND		250	234	94	250	233	93	0	81-121/14
87-68-3	Hexachlorobutadiene	ND		250	161	64*	250	163	65*	1	75-142/19
591-78-6	2-Hexanone	ND		1250	1430	114	1250	1430	114	0	61-129/18
98-82-8	Isopropylbenzene	ND		250	228	91	250	227	91	0	83-132/15
99-87-6	p-Isopropyltoluene	ND		250	225	90	250	221	88	2	79-130/16
74-83-9	Methyl Bromide	ND		250	346	138	250	355	142	3	59-143/19
74-87-3	Methyl Chloride	ND		250	287	115	250	318	127	10	50-159/19
74-95-3	Methylene Bromide	ND		250	245	98	250	245	98	0	78-119/14
75-09-2	Methylene Chloride	ND		250	247	99	250	245	98	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	1440	115	1250	1430	114	1	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		250	219	88	250	209	84	5	72-117/14
91-20-3	Naphthalene	ND		250	212	85	250	215	86	1	63-132/25
103-65-1	n-Propylbenzene	ND		250	238	95	250	238	95	0	82-133/15
100-42-5	Styrene	ND		250	206	82	250	204	82	1	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	229	92	250	226	90	1	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	234	94	250	225	90	4	72-120/14
127-18-4	Tetrachloroethylene	ND		250	209	84	250	208	83	0	76-135/16
108-88-3	Toluene	ND		250	218	87	250	215	86	1	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		250	207	83	250	207	83	0	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		250	187	75	250	187	75	0	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		250	234	94	250	238	95	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	229	92	250	225	90	2	76-119/14
79-01-6	Trichloroethylene	581	a	250	825	98	250	854	109	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		250	377	151	250	387	155	3	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		250	241	96	250	236	94	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		250	224	90	250	222	89	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		250	223	89	250	219	88	2	79-120/19
108-05-4	Vinyl Acetate	ND		1250	704	56	1250	675	54	4	43-154/14
75-01-4	Vinyl Chloride	1.5		250	289	115	250	317	126	9	69-159/18
	m,p-Xylene	ND		500	523	105	500	529	106	1	79-126/15
95-47-6	o-Xylene	ND		250	232	93	250	234	94	1	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25584-10MS	N0086504.D	10	06/30/15	RB	n/a	n/a	VN3852
FA25584-10MSD	N0086505.D	10	06/30/15	RB	n/a	n/a	VN3852
FA25584-10	N0086495.D	1	06/30/15	RB	n/a	n/a	VN3852
FA25584-10	N0086496.D	10	06/30/15	RB	n/a	n/a	VN3852

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-1, FA25584-2, FA25584-3, FA25584-4, FA25584-5, FA25584-6, FA25584-7, FA25584-8, FA25584-9, FA25584-10, FA25584-11, FA25584-12, FA25584-13, FA25584-14, FA25584-15

CAS No.	Surrogate Recoveries	MS	MSD	FA25584-10	FA25584-10	Limits
1868-53-7	Dibromofluoromethane	111%	110%	111%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	117%	118%	118%	79-125%
2037-26-5	Toluene-D8	95%	95%	96%	96%	85-112%
460-00-4	4-Bromofluorobenzene	94%	95%	103%	100%	83-118%

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25584
Account: UTC United Technologies Corporation
Project: AECOMGAA: UTC Thomson; 1884 Warrenton Hwy, Thomson, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25430-5MS	N0086528.D	1	07/01/15	RB	n/a	n/a	VN3853
FA25430-5MSD	N0086529.D	1	07/01/15	RB	n/a	n/a	VN3853
FA25430-5	N0086526.D	1	07/01/15	RB	n/a	n/a	VN3853

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25584-13

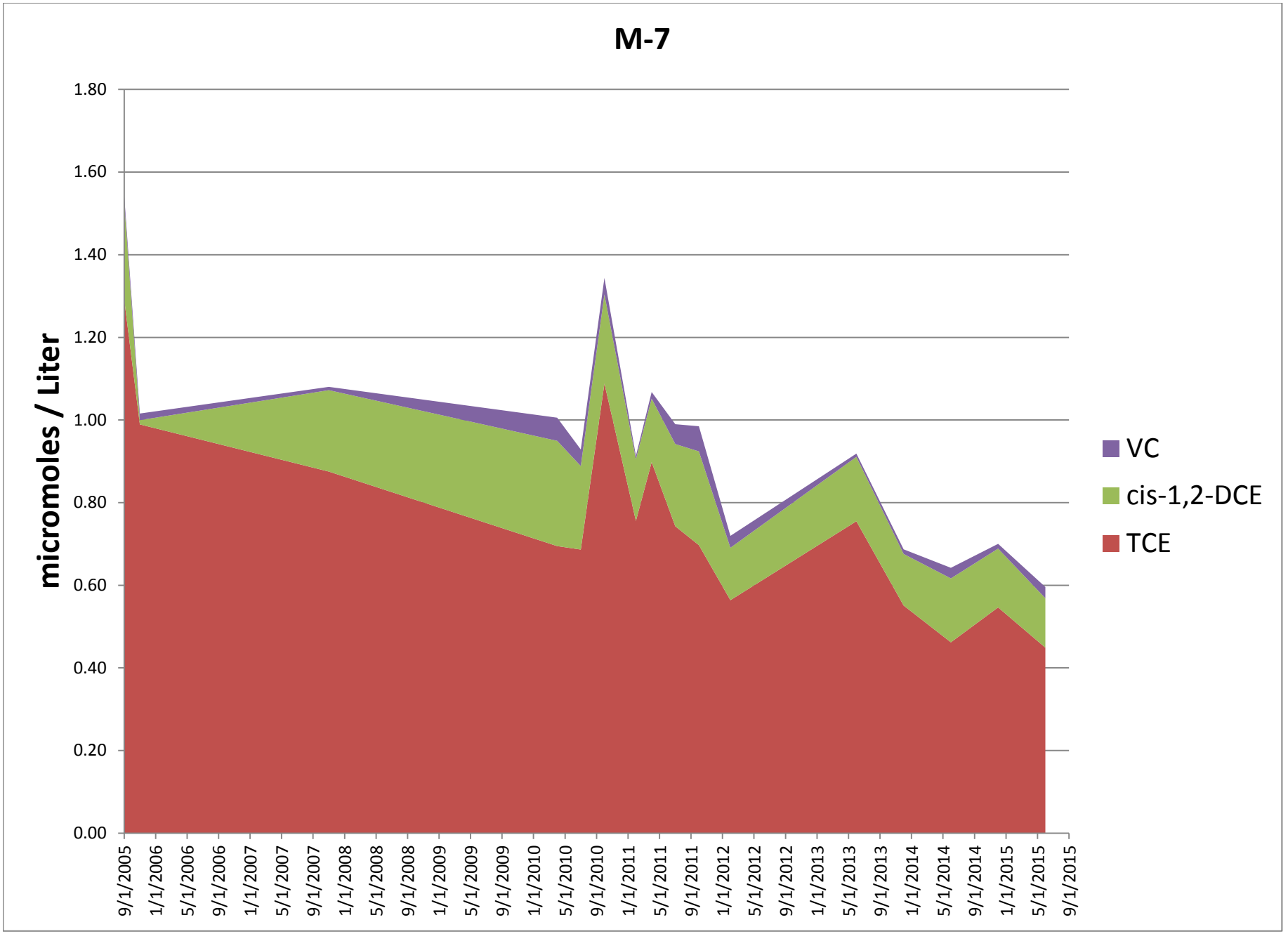
CAS No.	Compound	FA25430-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-35-4	1,1-Dichloroethylene	1.0	U	25	25.8	103	25	21.8	87	17	78-137/18

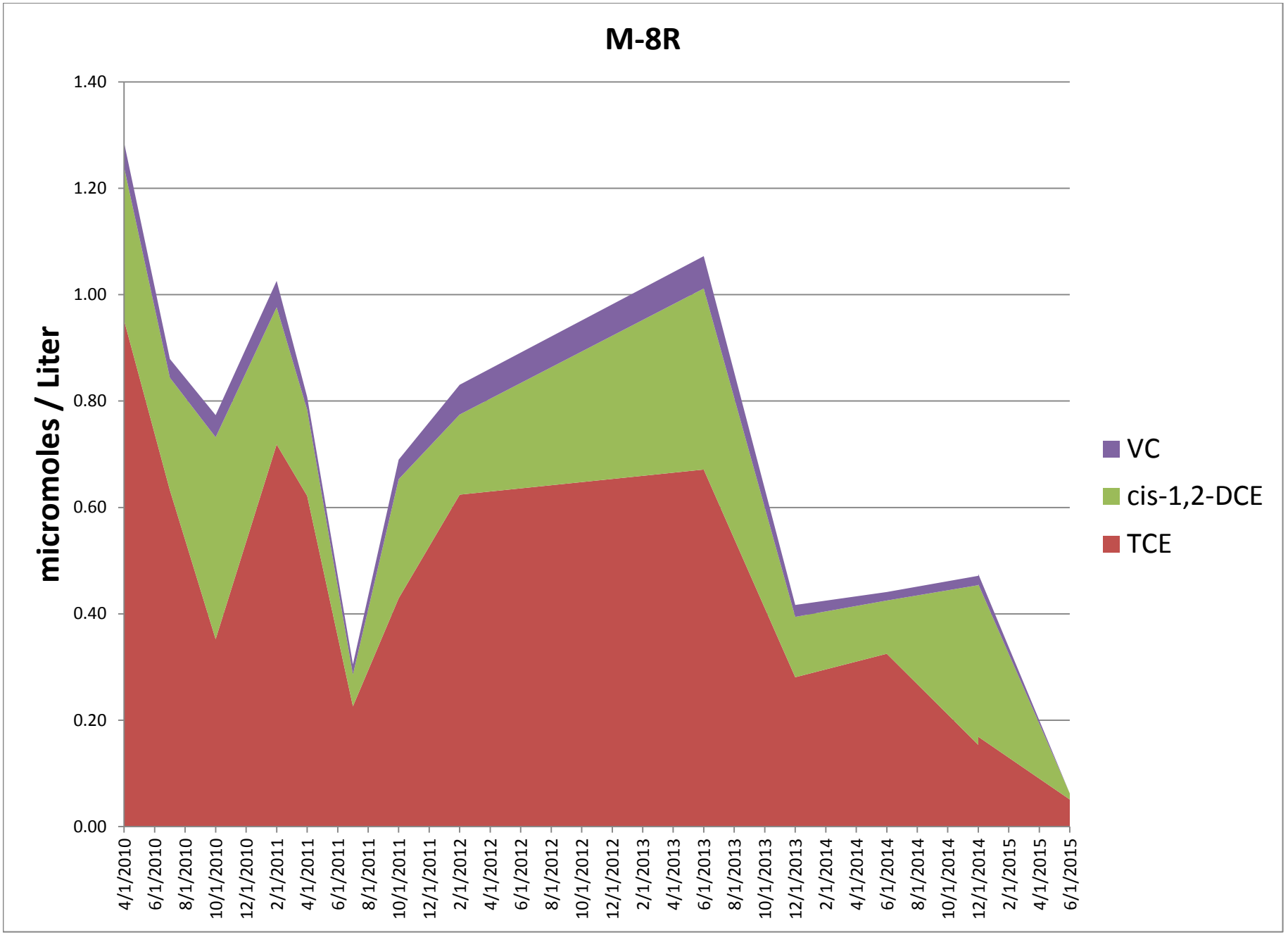
CAS No.	Surrogate Recoveries	MS	MSD	FA25430-5	Limits
1868-53-7	Dibromofluoromethane	106%	104%	110%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	110%	120%	79-125%
2037-26-5	Toluene-D8	97%	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	100%	83-118%

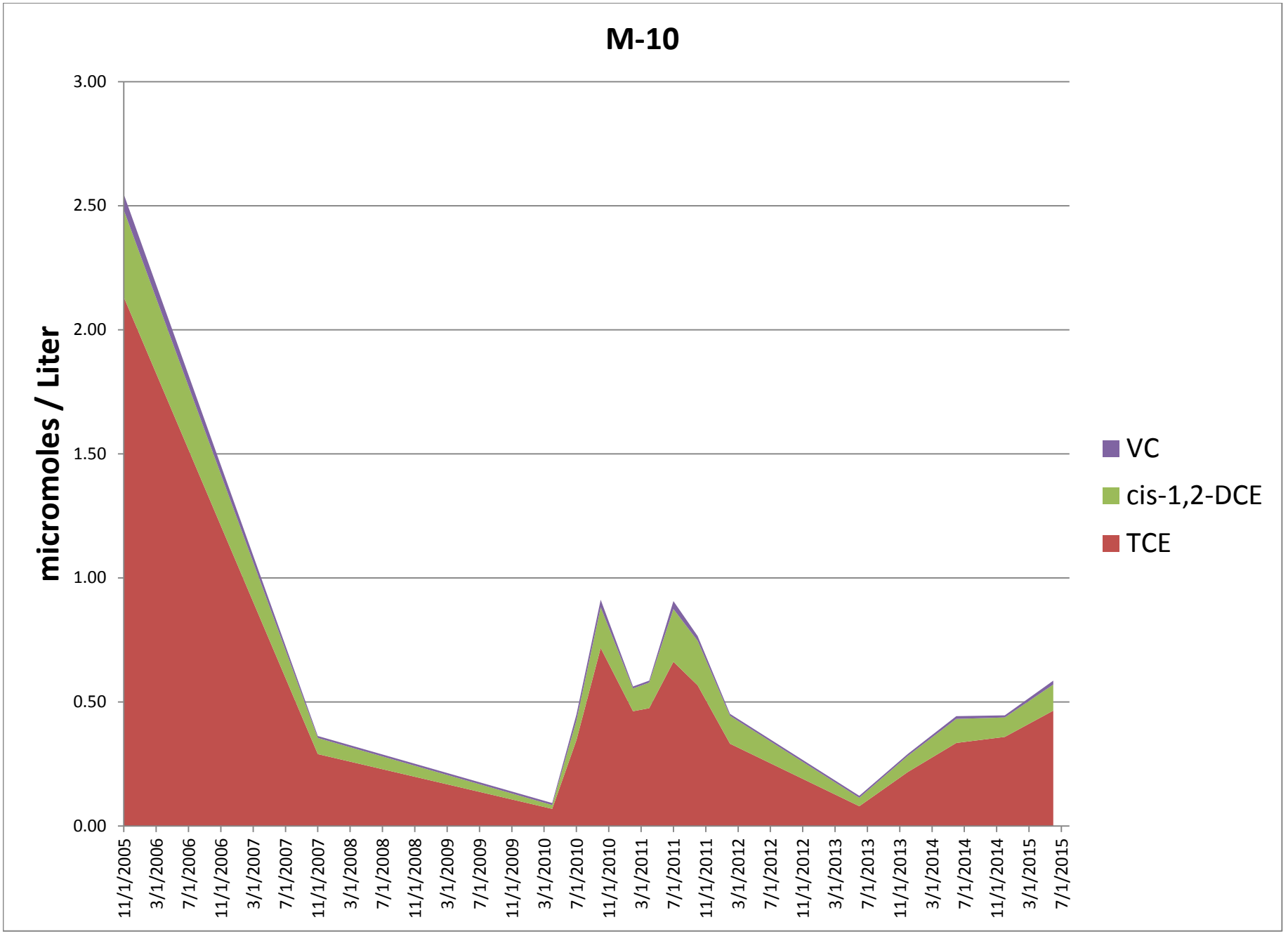
* = Outside of Control Limits.

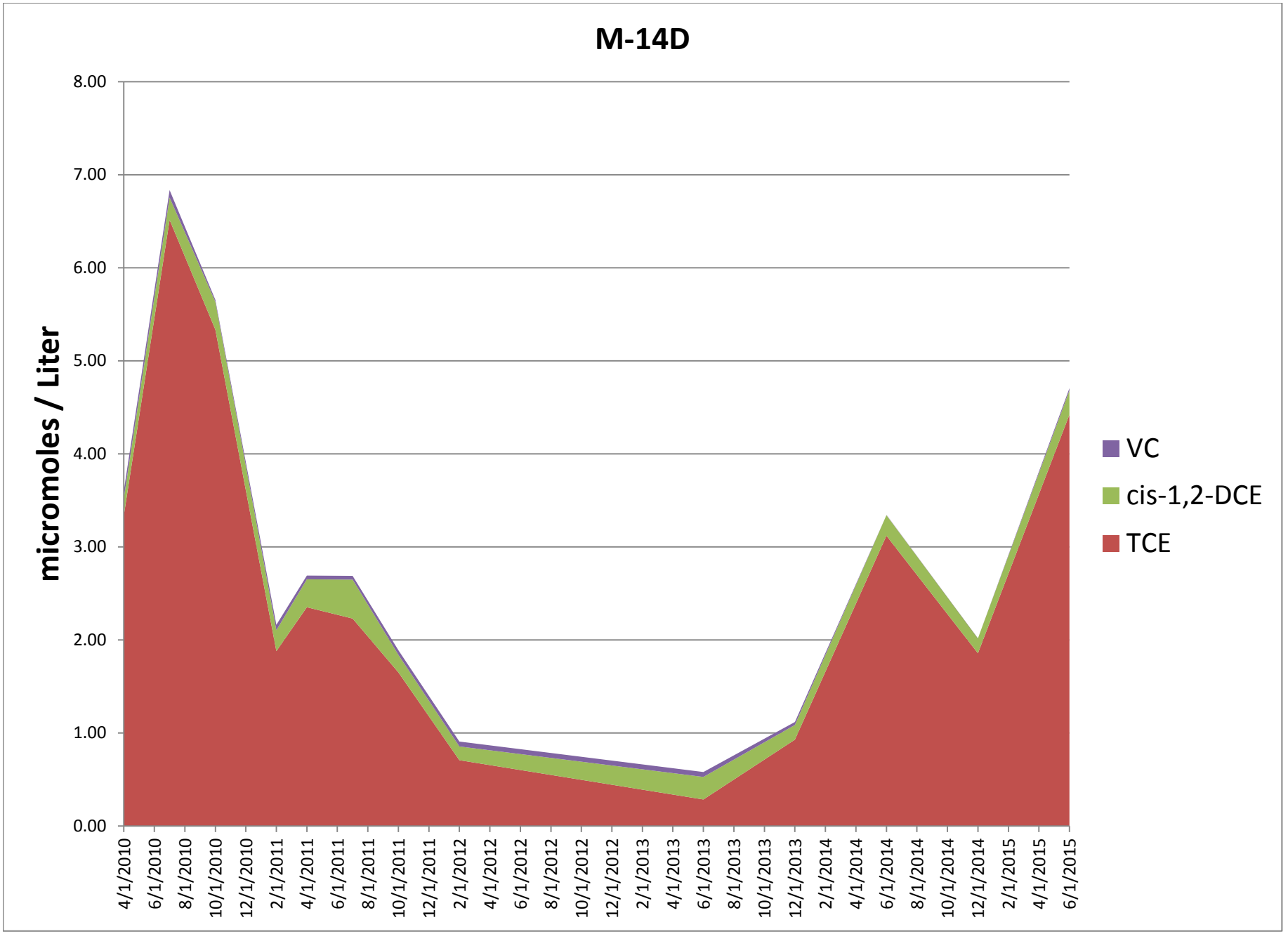
Appendix D

Constituents of Interest Concentration Trend Graphs


M-7
micromoles / Liter
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
9/1/2009
1/1/2010
5/1/2010
9/1/2010
1/1/2011
5/1/2011
9/1/2011
1/1/2012
5/1/2012
9/1/2012
1/1/2013
5/1/2013
9/1/2013
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
VC
cis-1,2-DCE
TCE


M-8R
micromoles / Liter
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
VC
cis-1,2-DCE
TCE


M-10
micromoles / Liter
3.00
2.50
2.00
1.50
1.00
0.50
0.00
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
VC
cis-1,2-DCE
TCE


M-14D
micromoles / Liter
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
VC
cis-1,2-DCE
TCE

Appendix E

Mann-Kendall Trend Analysis

MAROS Mann-Kendall Statistics Summary

Project: UTC Thomson
User Name:
Location: Thomson
State: Georgia

Time Period: 9/25/2005 **to** 6/24/2015 2
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
BENZENE								
M-2	T	7	6	1.73	-17	99.5%	No	D
DICHLOROETHYLENES								
M-17	T	8	8	0.72	2	54.8%	No	NT
M-9	T	14	14	0.43	-25	90.4%	No	PD
NAPHTHALENE								
M-2	T	4	2	1.68	-5	89.6%	No	NT
TRICHLOROETHYLENE (TCE)								
M-10	S	16	16	0.99	-12	68.7%	No	S
M-14D	T	14	14	0.76	-27	92.1%	No	PD
M-17	T	8	8	0.68	16	96.9%	No	I
M-7	T	16	16	0.31	-80	100.0%	No	D
M-8R	T	14	14	0.59	-53	99.8%	No	D
VINYL CHLORIDE								
M-10	S	16	8	0.90	-10	65.5%	No	S
M-14D	T	14	8	0.53	-41	98.7%	No	D
M-2	T	2	0	0.00	0	0.0%	Yes	ND
M-2A	T	2	0	0.00	0	0.0%	Yes	ND
M-7	T	16	10	0.67	-3	53.6%	No	S
M-8R	T	14	13	0.51	-38	97.9%	No	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)- Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.