December 28, 2017

Mr. Kevin Collins
Response & Remediation Program
Georgia Environmental Protection Division
2 Martin Luther King Jr. Drive, SE,
Suite 1054
Atlanta, Georgia 30334

RE: Voluntary Remediation Program Semi-Annual Progress Report #11
Tara Shopping Center
8564 Tara Boulevard, Jonesboro, Clayton County, Georgia
Tax Parcel ID 13242D B001; HSI Site No. 10798

Dear Mr. Collins,

On behalf of Ashland LLC (Ashland), EHS Support LLC (EHS Support) is submitting this Semi-Annual Progress Report #11 for the Site referenced above. Pursuant to the Voluntary Remediation Program (VRP) application conditional approved letter issued on June 28, 2012, semi-annual progress reports are submitted throughout the duration of the VRP program.

The purpose of this progress report is to provide a summary of corrective action activities completed between July and December 2017 in accordance with the Groundwater Correction Action Plan (Groundwater CAP). Specifically,

- Semi-annual monitoring of bedrock monitoring wells MW-16C, MW-19B/C/D, and MW-20C
- Semi-annual surface water sampling in the unnamed creek including, stormwater outfall location OF-2 and downgradient surface water locations SS-1, SS-2, and SS-3
- Monitoring well pad repairs at monitoring wells MW-13A/B/C and MW-19A/B/C/D
- Survey of surface water sample locations
- Soil vapor intrusion assessment activities

In addition, this progress report provides a revised VRP Remediation Schedule and a summation of the extensive remedial work completed by Ashland since 2006 (11 years) to support their request for VRP extension.

1.0 Groundwater Corrective Action Program

The Groundwater CAP was submitted on March 17, 2016 and was subsequently approved on August 22, 2016 by the Georgia EPD. The Groundwater CAP included an updated remediation schedule through 2019. The Groundwater CAP established the corrective action monitoring program outlined below, as well as, proposed groundwater streamlined uniform environmental covenants as institutional controls at seven off-site properties. Minor revisions to the Groundwater CAP were submitted on November 4, 2016. Groundwater CAP activities include:

- Semi-annual monitoring of select bedrock monitoring wells (C and D Zone) including MW-15C, MW-16C, MW-19B/C/D, MW-20C, and MW-24C

- Semi-annual surface water sampling in the unnamed creek including, stormwater outfall location OF-2 and downgradient surface water locations SS-1, SS-2, and SS-3
- Annual monitoring of select unconsolidated monitoring wells (A and B Zone) including MW13A/B, MW-15/B, and MW-16A/B
- Annual inspection and maintenance of the monitoring well network (36 monitoring wells and three creek survey points)
- Annual gauging of monitoring wells and stream gauge SG-1/SS-1 to verify groundwater flow direction
- Collection of groundwater samples via passive diffusion bag (PDB) samplers
- Analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) method 8260C
- Preparation of semi-annual VRP progress reports

1.1 Purpose

The purpose of the corrective action monitoring program is to collect a minimum of eight rounds of data from newer monitoring wells, such that a statistical evaluation can be completed. The corrective action monitoring program will be evaluated after the third (and final) annual event (April 2019) once the statistical trend analysis is complete. A summary of the corrective action monitoring program is provided as **Table 1**. The monitoring well network and surface water sampling locations are provided as **Figure 1**.

1.2 VRP Remediation Schedule

Per Georgia EPD's letter of correspondence dated February 28, 2017, Ashland will continue to submit semi-annual progress reports by June 28 and December 28 until such time it is appropriate to submit the Compliance Status Report (CSR). Submittal of the CSR will be dependent upon completion remediation activities including assessment of vapor media and bringing surface water into compliance. The Remediation Schedule based on the three-year monitoring period proposed in the Groundwater CAP is presented as **Figure 2**.

Additional updates to the schedule are listed below.

- Effective 2018, groundwater sampling activities will be moved from June/December to April/October. The dates of semi-annual sampling have been shifted to provide expedited data review and reporting with Georgia EPD. Previously, sampling activities were conducted in June and December with semi-annual reports submitted approximately six months after each sampling event
- Soil vapor intrusion assessment activities are now included in the schedule
- Submittal of the CSR is currently proposed for September 30, 2019

1.3 Annual Monitoring Event (June 2017)

On June 26, 2017, the first annual corrective action monitoring event was conducted. Depth to groundwater measurements were recorded from the entire monitoring well network (36 monitoring wells). Groundwater samples were collected from 13 monitoring wells (MW-13A/B, MW-15A/B/C, MW-16A/B/C, MW-19B/C/D, MW-20C, and MW-24C). Surface water samples were collected from four locations (OF-1, SS-

1, SS-2, and SS-3) within the unnamed creek west of the Site. Refer to **Table 1** for a summary of the corrective action monitoring program.

The PDB samplers installed in December 2016 were retrieved. Groundwater samples were collected by decanting the water directly from the PDB into laboratory supplied bottleware. Groundwater samples were packed on ice and submitted to TestAmerica of Savannah, Georgia under chain of custody for analysis of VOCs using USEPA method 8260B.

At the verbal request of Georgia EPD on December 6, 2016, confirmation groundwater samples were additionally collected from two monitoring wells (MW-16A/B) using low-flow purging and sampling techniques in accordance with USEPA Science and Ecosystem Support Division Operating Procedure SESDPROC-301-R3. A copy of the purge forms is provided in **Appendix A.**

Surface water samples were collected in the following order: OF-2, SS-1, SS-2, and SS-3. Surface water samples were collected with a pre-cleaned, glass sampling cup and decanted directly into laboratory supplied bottleware. Surface water samples were packed on ice and submitted to TestAmerica of Savannah, Georgia under chain-of-custody for analysis of VOCs using USEPA Method 8260B.

At the completion of the corrective action monitoring event, a new PDB sampler and dedicated weight were installed within each of the sampled monitoring wells in preparation for the semi-annual corrective action monitoring event scheduled for December 2017. Each sampler was assembled with a 24-inch long, 1.75-inch diameter, 500-milliliter volume, poly-mesh sampler and a stainless-steel weight (8 or 20 ounce), and suspended within the well screen interval prior to tethering the suspension cable to the expandable well cap at grade. PDB supplies including laboratory grade de-ionized water were obtained from EON Products, Inc. of Snellville, Georgia. Analytical results are discussed in **Section 1.4**.

1.4 Semi-Annual Monitoring Event (December 2017)

On December 5, 2017, the semi-annual corrective action monitoring event was conducted. Groundwater samples were collected from six monitoring wells (MW-16C, MW-19B/C/D, and MW-20C). Surface water samples were collected from four locations (OF-1, SS-1, SS-2, and SS-3) within the unnamed creek west of the Site. Ashland was denied access to monitoring wells MW-15C and MW-24C located on Parcel 13242D A016; as a result, these wells were not sampled in December 2017 (Figure 1). Ashland continues to pursue access. Refer to **Table 1**.

The PDB samplers installed within the six monitoring wells in June 2017 were retrieved. Groundwater samples were collected by decanting the water directly from the PDB into laboratory supplied glassware. Surface water samples were collected with a pre-cleaned, glass sampling cup and decanted directly into laboratory supplied bottleware. All samples were packed on ice and submitted to TestAmerica of Savannah, Georgia under chain-of-custody for analysis of VOCs using USEPA Method 8260B. Analytical results are discussed in **Section 1.4**.

Similar to the above, at the completion of the sampling event, a new PDB sampler and dedicated weight were installed within each of the sampled monitoring wells in preparation for the next annual corrective action monitoring event scheduled for April 2018.

1.5 Results

Groundwater Flow Regime

Depth to water measurements from June 2017 were used to calculate groundwater elevations across the monitoring well network, both on-site and off-site. Groundwater elevation data is presented in **Table 2**. Potentiometric surface maps depicting groundwater flow direction within the upper and lower residuum and bedrock water bearing zones are provided as **Figure 3** through **Figure 5**. Based on the current monitoring well network, groundwater flow within the residuum and bedrock zones continues to flow to the west toward the unnamed creek. A depth to water measurement was not recorded at creek staff gauge SG-1/SS-1; therefore, the surface water elevation in the creek was not identified.

Groundwater

A tabulated summary of the groundwater analytical results, by parcel ID, is provided in **Table 3** through **Table 6**. Tetrachloroethene (PCE), and degradation products trichloroethene (TCE), cis-1,2-dichlorothene (cis-1,2-DCE), and/or vinyl chloride (VC) were identified above their respective Georgia Environmental Protection Division (EPD) Maximum Contaminate Level (MCL) in each well sampled with the exception of monitoring well MW-15C (June 2017 sampling event). Monitoring well MW-15C is centrally located, approximately 225 feet west and downgradient of the Site and 225 feet east and up gradient of the unnamed creek. Refer to **Figure 1** for the monitoring well locations.

Surface Water

A tabulated summary of analytical results between 2015 and 2017 is provided as **Table 7**. PCE and cis-1,2-DCE were detected above their respective Georgia Water Quality Standards at each location sampled. PCE was detected above the USEPA Chronic Ecological Screening Value of 53 micrograms per liter (µg/L) in surface water samples collected at OF-2 at a concentration of 94 µg/L (June 2017) and 60 µg/L (December 2017), and SS-2 at a concentration of 67 µg/L (December 2017 sampling event). All other surface water samples remained below the chronic ecological screen value. Concentrations are generally consistent with previous sampling results (i.e., less than an order of magnitude variance).

1.6 Discussion

Overall, VOC concentrations are consistent with previous sampling results with the exception of monitoring wells MW-19D and MW-24C. VOC concentrations in monitoring wells MW-19D and MW-24C exhibited higher concentrations during the last three sampling events using PDB samplers. Although comparison of results from PDB sampling and traditional low flow purging and sampling at monitoring wells MW-16A and MW-16B were very similar (Table 5); the increase in wells MW-19D and MW-24C may be a result of PDB use and may not be representative of groundwater quality. Ashland will evaluate collecting groundwater samples from these two wells using low flow purging and sampling methods and PDB samplers during the next sampling event.

No analytical or quality issues were noted. An electronic copy of the laboratory analytical reports is provided in **Appendix B**.

1.7 Annual Monitoring Well Inspection and Maintenance Activities

Flush-mount well pads and well vaults were replaced at seven (7) monitoring wells (MW-13A, MW-13B, MW-13B, MW19A, MW-19B, MW-19C, MW-19D) during the week of October 23, 2017. These monitoring wells are located within heavy traffic areas and had sustained damage to pad and vaults. Each concrete pad and vault was replaced with a high traffic rated well vault and new concrete pad. Replacement activities were completed by GeoLab Drilling of Dacula, Georgia.

On December 6, 2017, surface water sampling locations SS-1, SS-2, and SS-3 were surveyed in the field by a licensed surveyor (Travis Pruitt and Associates). A semi-permanent marker (rebar) was installed at each location to aid in future sampling efforts (duplication of sample location).

2.0 Vapor Intrusion Evaluation

As discussed in the Groundwater CAP, groundwater data from the most recent comprehensive sampling event (July 2015) was used to initially evaluate the potential for complete exposure pathways through vapor intrusion for each impacted property using the U.S. Environmental Protection Agency (USEPA) Vapor Intrusion Screening Level (VISL) Calculator (USEPA, 2014). The preliminary results of the VISL screening indicated further evaluation was warranted to evaluate the vapor intrusion pathway. Four parcels were identified for initial vapor intrusion screening including: 13242D B001 (Site / 8564 Tara Boulevard), 13242D A001 (8639 Tara Boulevard); 13242D A012 (8633 Tara Boulevard) and 13242D B006Z/6 (8660 Tara Boulevard). Refer to **Figure 1**. These properties serve as a "surrogate" for other surrounding properties, in a fashion similar to Scenario 3 described in Interstate Technology & Regulatory Council (ITRC, 2007).

In October 2017, soil vapor assessment activities were initiated at the three properties identified below. The property owner of Parcel 13242D B006Z/6 did not provide approved for soil gas sampling; therefore, sampling activities were not complete.

Parcel ID	Property
13242D B001	Tara Shopping Center Tara Retail Holdings LLC (subject site)
13242D A001	Flint River Shopping Center KOB Investments LLC & ETAL
13242D A012	Outbuilding (Bail Bonds) Aaron Amblik ETAL

Soil vapor intrusions activities were completed in accordance with the site-specific soil vapor intrusion work plan. A brief summary of activities is provided below.

2.1 Vapor Implant Installation

During the week of October 23, 2017, 12 permanent soil vapor implants were installed for the purpose of evaluating soil vapor adjacent to buildings within or on the cusp of groundwater impacts associated with former dry-cleaning operations at the Tara Shopping Center. Shallow vapor implants were generally installed between 2-3 feet below grade and represent near building slab conditions. A single deep soil vapor implant was installed above the water table interface at each property. Soil vapor implants were installed by GeoLab Drilling of Dacula, Georgia. Each borehole was first cleared to five feet below grade using a

hand auger. A single deep boring was advanced using direct push drilling technologies to verify depth to water (and/or depth to bedrock, whichever was encountered first). Soil was screened in six-inch increments with a photoionization detector (PID) and field observations were noted on soil boring logs.

The soil vapor implant and tubing were inserted through the drive rod and the soil vapor implant probe was locked to the anchor point by rotating the threaded joints. Once the soil vapor implant was secured, the rods were retrieved. The annular space surrounding the sample screen was backfilled with sand to provide a sand pack. Bentonite was added to fill the annular space above the screen/sand pack. Each soil vapor implant probe was finished within a well vault, which was flush with the top of the pavement to minimize disturbance. Soil vapor implant depth details are provided on **Table 8**.

The soil vapor implant probe is constructed of a six-inch long, stainless steel, wired meshed screen and ¼-outer diameter (OD) Teflon tubing. Soil vapor implant construction logs, including a description soil lithology, concrete slab/asphalt thickness, headspace readings, and construction details will be provided with the results of sampling in the next semi-annual VRP report (due on or before June 28, 2018).

2.2 Sample Collection

Soil gas samples were collected between December 5 and 7, 2017 per the site-specific Soil Vapor Intrusion Work Plan dated November 21, 2016. Samples were collected into laboratory batch certified six liter (6L) stainless steel SUMMA canisters over a 30-minute period. Samples were shipped under chain-of-custody to TestAmerica Burlington, Vermont for analysis of VOCs via method TO-15.

Pending soil vapor analytical results will be evaluated using the USEPA VISL Calculator. Specifically, individual results will be evaluated against Target Sub-Slab and Exterior Soil Gas concentrations. The individual concentrations will be based on a commercial exposure scenario, and a target risk for carcinogens of $1.0x10^{-6}$, and a target hazard quotient for non-carcinogens of 0.1. A groundwater temperature of 25 degrees Celsius will be assumed. Further risk evaluation may be conducted via US EPA's 2017 revised Johnson and Ettinger (J&E) model spreadsheet tool as a second line of evidence, in accordance with GA EPD Vapor Intrusion Technical Guidance. Cumulative risks will be evaluated against a target risk for carcinogens of $1.0x10^{-5}$ and target hazard quotient for non-carcinogens of 1.0. The results of sampling and recommendations will be provided under separate cover. If the soil vapor analytical results indicate the need for supplemental soil vapor sampling and/or sub-slab or indoor air sampling, further discussions will be conducted with the GA EPD.

3.0 Potential Sale of Site

Representatives for Ashland were contacted by a potential buying agent for the Site. On November 27, 2017 Ashland reminded Tara Retail Holdings LLC via electronic correspondence of notification requirements per the Uniform Environmental Covenant.

4.0 Streamlined Uniform Environmental Covenants

Requests for Streamlined Uniform Environmental Covenants were submitted to the seven properties identified in the revised Groundwater CAP. Refer to **Table 9**. Ashland will continue to pursue groundwater use restrictions at these properties. Ashland, with support of counsel, have developed a communication plan that will be implemented in 2018 to pursue finalization of these covenants.

5.0 VRP Status

On November 14, 2017, representatives for Ashland and the Georgia EPD discussed the status of this project and its progress in the VRP. The Georgia EPD requested Ashland provide further rationalization beyond the extended schedule included in the CAP for extending the VRP timeframe through 2019. This section of the progress report provides expanded justification for our request.

Ashland has always maintained it was not responsible for releases to the environment at the former dry cleaner property (Site); but, as a responsible care company, has acted in good faith to lead investigation and remedial action of groundwater while the property owner was to address soil impacts. In 2011, Ashland has worked with the property owner to move the project through the VRP when the property owner failed to meet its obligation under the Hazardous Waste program. Since 2006, Ashland has invested more than $5MM to investigate/remediate a property where it is not responsible for the releases. Extensive work completed by Ashland over the past 12 years includes:

- Installed, maintained and sampled 54 monitoring wells between 2006 and 2017 (12 years);
- Collected surface water samples between 2009 and 2017 (9 years) from the unnamed creek west of the Site, including expansive delineation of surface water in 2011;
- Completed the Preliminary Risk Evaluation (PRE) for aquatic impacts in 2011 and developed of a white paper for Water Quality Standards for PCE (2012);
- Implemented a pilot test for insitu groundwater remediation using potassium permanganate in 2010. The results of the year-long pilot test and the preliminary groundwater conceptual site model identifying the creek as the receptor and set the stage for off-site groundwater investigation to the west. (Refer to the Pilot Test Effectiveness Report and Groundwater Corrective Action Investigation Workplan, dated July 8, 2011);
- Worked closely with Georgia EPD during this time (with three different Georgia EPD case managers) to obtain access agreements with properties west of Tara Boulevard. In 2015 (3 years into the VRP), Ashland successfully gained access to the parcel to the north of the creek;
- Entered into the VRP program in 2012, reassessed the remedial technology to best address soil impacts, and implemented soil remediation with a performance guarantee from the remediation contractor. These activities were completed between June and November 2013 and included asbestos abatement, building demolition, soil disposal, and insitu soil remediation nearly 30 feet in depth without incident at the Site.
- Compiled and summarized all the data collected at the site since 2006 into the final Soil Remediation Report, submitted to EPD March 14, 2014.
- Established aUniform Environmental Covenant for the Site on August 12, 2015.
- In early 2016, less than a year from final well installation, submitted the Groundwater Corrective Action Plan that included an Ecological Risk Evaluation and Human Health Risk Evaluation and proposed institutional controls for off-site groundwater impacts and initial vapor intrusion evaluation, with a contingency plan.
- In 2017, as soon as access agreement addendums were approved, installed 12 soil vapor implants across three target properties. Those locations have since been sampled and data results are pending.
- Continued efforts to engage off-site properties owners and in general, maintained positive relationships with nearly 10 off-site property owners.
- Persevered and sought support from Georgia EPD when necessary to help progress access off-site.

The above activities underscore Ashland's very proactive work to timely and effectively address and improve site conditions. The Site is now in the final stages of the Groundwater CAP. On-going monitoring (groundwater and surface water) will continue as set forth in the revised schedule. In addition, Ashland will continue to pursue Streamlined Uniform Environmental Covenants for the seven off-site properties per the CAP. As we enter the final stages of closing this project, Ashland would like to remind the agency of all of its contributions to protect human and health of the environment. Ashland respectfully requests that the Georgia EPD provide formal approval of the VRP extension to ensure VRP program success at this Site.

6.0 Upcoming Work

The next annual groundwater sampling event is scheduled for April 2018. The next semi-annual progress report will be submitted by June 28, 2018. The results of vapor intrusion assessment activities will be provided in this next progress report.

7.0 Professional Engineer/Geologist Time

Professional engineer and geologist time during this reporting period were nominal; therefore, a tabulated summary is not provided.

If you should have any questions regarding the information presented in this progress report, please contact me at michelle.stayrook@ehs-support.com or 412-807-1494.

Sincerely,

Michelle Stayrook

Michelle Stayrook
EHS Support
Project Manager

Attachments

cc: Chrissy Piechoski, Ashland (email)
Rich Williams, Esq., Ashland (email)
Eric Nathan, Tara Retail Holdings, Inc.
Amy Magee, King and Spalding (email)
Jonathan Waddell, P.E. EHS Support (email)
Kris Spikes, EHS Support, LLC (email)

CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long-term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Jonathan Patrick Waddell, PE037262 — 12/28/2017

Printed Name and GA PE/PG Number — Date

Signature and Stamp

GEORGIA
REGISTERED
No. PE037262
PROFESSIONAL
ENGINEER
JONATHAN PATRICK WADDELL

TABLES

Table 1 - Groundwater Sampling Program
Groundwater Corrective Action Plan
Tara Shopping Center 8564 Tara Boulevard, Jonesboro, GA

Well Identification	Location	Parcel Identification	Analysis	Annual Groundwater Monitoring Event (June 2017)	Well Repair (October 2017)	Semi-Annual Groundwater Monitoring Event (December 2017)
MW-13A	Lumsden Property	13242D B006	USEPA 8260 PDB Samplers	X	X	-
MW-13B				X	X	-
MW-13C				-	X	-
MW-15A	State of Georgia Right of Way	East of 13242D A012		X	-	-
MW-15B				X	-	-
MW-16A		East of 13242D A001		X (1)	-	-
MW-16B				X (1)	-	-
MW-16C				X	-	X
MW-15C	CB Management	13242D A016		X	-	Not Accessible (2)
MW-24C				X	-	Not Accessible (2)
MW-19A	Flint River Shopping Center	13242D A001		-	X	-
MW-19B				X	-	X
MW-19C				X	X	X
MW-19D				X	X	X
MW-20C				X	-	X
OF-2	Unnamed Creek	-		X	-	X
SS-1				X	-	X (3)
SS-2				X	-	X (3)
SS-3				X	-	X (3)

(1) Passive and Low Flow Sampling methodologies completed for comparison.
(2) CB Management denied access to property subsequent to June 2017 sampling event.
(3) Surface Water (SS) sample locations surveyed in the field December 7, 2017.
All wells were inspected and gauged in June 2017.
Well Repairs: replace well vault and pad with heavy duty traffic grade vault.

Table 6 - Summary of Groundwater Elevation Data - June 2017
Tara Shopping Center, 8564 Tara Blvd, Jonesboro, Georgia

HSI 10798

								06/26/17		
Well Identification	Location	Parcel Identification	Water Bearing Unit	Date Installed	Date of Last Survey	Top of Casing Elevation (ft. above MSL)	Ground Surface Elevation (ft. above MSL)	Depth to Water (ft-TOC)	Total Depth (ft-TOC)	Groundwater Elevation (ft. above MSL)
MW-3A	Site	13242D B001	Shallow	5/3/2006	7/24/2013	892.41	892.70	21.02	25.17	871.39
MW-4A	Lumsden	13242D B006	Shallow	4/28/2006	7/24/2013	884.63	884.96	13.21	25.11	871.42
MW-5A	Lumsden	13242D B006	Shallow	5/1/2006	7/24/2013	883.48	883.72	13.41	24.94	870.07
MW-5B	Lumsden	13242D B006	Intermediate	5/1/2006	7/24/2013	883.43	883.72	13.54	45.28	869.89
MW-5C	Lumsden	13242D B006	Bedrock	4/10/2008	7/24/2013	883.64	883.88	15.82	90.05	867.82
MW-7B	Site	13242D B001	Intermediate	7/26/2006	7/24/2013	896.93	897.15	27.32	32.96	869.61
MW-8A	Site	13242D B001	Shallow	7/26/2006	7/24/2013	895.14	895.27	26.02	31.78	869.12
MW-8B	Site	13242D B001	Intermediate	7/26/2006	7/24/2013	895.02	895.26	25.94	57.33	869.08
MW-8C	Site	13242D B001	Bedrock	4/10/2008	7/24/2013	895.04	895.27	30.85	85.14	864.19
MW-9A	Site	13242D B001	Shallow	7/25/2006	7/24/2013	891.65	892.20	20.95	30.28	870.70
MW-10A	Site	13242D B001	Shallow	2/19/2008	11/12/2014	896.76	897.09	26.74	37.98	870.02
MW-10B	Site	13242D B001	Intermediate	2/19/2008	11/12/2014	896.55	896.95	26.57	49.49	869.98
MW-10C	Site	13242D B001	Bedrock	4/10/2008	11/12/2014	896.65	896.99	31.39	88.07	865.26
MW-11A	Khan	13242D B001A	Shallow	2/20/2008	11/12/2014	893.90	894.24	24.85	30.14	869.05
MW-11B	Khan	13242D B001A	Intermediate	2/20/2008	11/12/2014	893.79	894.18	24.45	56.78	869.34
MW-11C	Khan	13242D B001A	Bedrock	4/10/2008	11/12/2014	894.06	894.41	25.17	87.94	868.89
MW-13A	Lumsden	13242D B006	Shallow	3/27/2008	7/24/2013	881.08	881.35	9.86	24.35	871.22
MW-13B	Lumsden	13242D B006	Intermediate	3/27/2008	7/24/2013	881.09	881.30	10.24	71.93	870.85
MW-13C	Lumsden	13242D B006	Bedrock	10/15/2008	7/24/2013	881.16	881.36	10.46	68.12	870.70
MW-14A	Site	13242D B001	Shallow	2/20/2008	7/24/2013	899.70	899.86	26.47	35.84	873.23
MW-15A	ROW	-	Shallow	9/18/2008	7/24/2013	888.05	888.30	20.37	37.59	867.68
MW-15B	ROW	-	Intermediate	9/19/2008	7/24/2013	888.09	888.30	20.46	47.75	867.63
MW-15C	CB Mgmt	13242D A016	Bedrock	6/11/2015	7/16/2015	890.47	890.73	28.41	69.71	862.06
MW-16A	ROW	-	Shallow	9/18/2008	7/24/2013	879.48	879.90	12.28	32.57	867.20
MW-16B	ROW	-	Intermediate	9/19/2008	7/24/2013	879.65	879.90	12.33	43.43	867.32
MW-16C	ROW	-	Bedrock	10/14/2008	7/24/2013	878.84	878.97	14.19	67.93	864.65
MW-18A	Al Karim	13242D B007	Shallow	11/27/2012	7/24/2013	888.29	888.63	17.65	30.11	870.64
MW-18B	Al Karim	13242D B007	Intermediate	11/27/2012	7/24/2013	888.23	888.60	17.79	56.56	870.44
MW-19A	FRSC	13242D A001	Shallow	12/5/2012	7/24/2013	879.94	880.10	13.62	34.21	866.32
MW-19B	FRSC	13242D A001	Intermediate	12/5/2012	7/24/2013	880.17	880.32	14.11	60.17	866.06
MW-19C	FRSC	13242D A001	Bedrock	12/4/2012	7/24/2013	880.01	880.21	14.28	84.71	865.73
MW-19D	FRSC	13242D A001	Bedrock	9/2/2014	11/12/2014	880.08	880.35	15.26	105.52	864.82
MW-20C	FRSC	13242D A001	Bedrock	12/4/2012	7/24/2013	875.44	875.75	18.89	44.93	856.55
MW-21B	FRSC	13242D A001	Intermediate	8/29/2014	11/12/2014	871.40	871.74	13.53	39.55	857.87
MW-21C	FRSC	13242D A001	Bedrock	8/29/2014	11/12/2014	871.41	871.76	14.30	74.77	857.11
MW-24C	CB Mgmt	13242D A016	Bedrock	6/10/2015	7/16/2015	884.57	884.57	35.76	43.52	848.81
STREAM GAUGE (SG)	Creek		Surface Water	7/24/2013	7/24/2013	854.74	NR	NR	NR	NR

Notes:
(ft. bgs) = feet below ground surface
(ft) = feet
(ft-TOC) = feet below top of inner PVC casing
(ft. above MSL) = feet above mean sea level
NR = Not recorded

Table 3 - Groundwater Analytical Results from Monitoring Wells
Lumsden Properties LLC
8660 Tara Boulevard, Jonesboro, GA
13242D B006 and B006Z

Well Sample ID	**Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L**	**MW-13A**							**MW-13B**						
Installation Date		3/27/2008							3/27/2008						
Screen Interval (feet below grade)		14-24							62-72						
Water Bearing Unit		Upper Residuum							Lower Residuum						
Lab Sample Number		680-34822-18	NA	680-50212-10	680-68710-5	680-90201-12	680-114574-16	680-140434-2	680-34822-17	NA	680-50212-9	680-68710-6	680-90177-11	680-114574-5	680-140434-1
Sampling Date		3/6/2008	10/21/2008	8/24/2009	5/23/2011	5/9/2013	7/15/2015	6/26/2017	3/6/2008	10/21/2008	8/24/2009	5/23/2011	5/8/2013	7/14/2015	6/26/2017
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		20		20	25	1	1	1	1		1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample Method		LFPS	LFPS	LFPS	LFPS	LFPS	LFPS	PDB	LFPS	LFPS	LFPS	LFPS	LFPS	LFPS	PDB
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
VOC Constituents of Concern															
Tetrachloroethene	5	1400	1000	1200	1200	17	750 D	25	17	4.1	14	20	27	290 D	53
Trichloroethene	5	640	500	840	800	29	730 D	37	2.2	1 U	5.4	5.5	4.1	130	12
cis-1,2-Dichloroethene	70	1300	1300	2300	2300	120	2000 D	60	9.1	3.1	12	21	16	130	64
Vinyl chloride	2	31	NA	79	71	9.2	180	12	1 U	NA	1 U	1 U	1 U	1.9	1 U
Other VOC Compounds															
1,1,1-Trichloroethane	200	20 U	NA	20 U	25 U	1 U	1 U	1	1 U	NA	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	20 U	NA	20 U	25 U	1 U	1 U	5 U	1 U	NA	1 U	1 U	1 U	1 U	5 U
1,1-Dichloroethane	400	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	20 U	NA	20 U	25 U	1 U	3.4	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	200 U	NA	200 U	250 U	10 U	10 U	25 U	10 U	NA	10 U	10 U	10 U	10 U	25 U
2-Hexanone	NP	200 U	NA	200 U	250 U	10 U	10 U	25 U	10 U	NA	10 U	10 U	10 U	10 U	25 U
4-Methyl-2-pentanone (MIBK)	200	200 U	NA	200 U	250 U	10 U	10 U	25 U	10 U	NA	10 U	10 U	10 U	10 U	25 U
Acetone	400	500 U	NA	500 U	620 U	25 U	25	25 U	25 U	NA	25 U	25 U	25 U	10 U	25 U
Benzene	5	20 U	NA	20 U	32	33	17	2.5 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Bromoform	80	20 U	NA	20 U	25 U	1 U	1 U	5	1 U	NA	1 U	1 U	1 U	1 U	5 U
Bromomethane	NP	20 U	NA	20 U	25 U	5 U	5 U	1 U	1 U	NA	1 U	1 U	5 U	5 U	1 F1
Carbon disulfide	400	40 U	NA	40 U	50 U	2 U	2 U	1 U	2 U	NA	2 U	2 U	2 U	2 U	1 U
Carbon tetrachloride	5	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	20 U	NA	20 U	25 U	5 U	5 U	1 U	1 U	NA	1 U	1 U	5 U	5 U	1 U
Chloroform	80	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	20 U	NA	20 U	25 U	1 U	1 U	5 U	1 U	NA	1 U	1 U	1 U	1 U	5 U
Dichlorobromomethane	80	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	100 U	NA	100 U	120 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
Styrene	100	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	20 U	NA	20 U	25 U	1 U	13	1 U	1 U	NA	1 U	1 U	1 U	1.4	1 U
trans-1,3-Dichloropropene	NP	20 U	NA	20 U	25 U	1 U	1 U	5 U	1 U	NA	1 U	1 U	1 U	1 U	5 U
Xylenes, Total	10,000	40 U	NA	40 U	50 U	2 U	1 U	10 U	2 U	NA	2 U	2 U	2 U	1 U	10 U
Total VOCs		3371	2800	4419	4403	208.2	3718.4	136.5	28.3	7.2	31.4	46.5	47.1	553.3	129

Monitoring Well MW-13C is not including in Corrective Action monitoring program; therefore, historic data is not shown.

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria

NA - Not available

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 4 - Groundwater Analytical Results from Monitoring Wells
CB Property Management and Development LLC
8557 Tara Boulevard, Jonesboro, GA
13242D A016

HSI 10798

Well Sample ID	Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	MW-15C					MW-24C				
Installation Date		6/11/2015					6/10/2015				
Screen Interval (feet below grade)		59.5-69.5					33.5-43.5				
Water Bearing Unit		Bedrock					Bedrock				
Lab Sample Number		680-114574-15	680-117982-2	680-133511-1	680-140434-21	No Sample	680-114236-5	680-117982-3	680-133511-2	680-140434-22	No Sample
Sampling Date		7/15/2015	10/16/2015	12/19/2016	6/26/2017	12/5/2017	7/2/2015	10/16/2015	12/19/2016	6/26/2017	12/5/2017
Matrix		Water	Water	Water	Water	No Access	Water	Water	Water	Water	No Access
Dilution Factor		1	1	1	1		1	1	1	1	
Units		ug/L	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L	
Sample Method		LFPS	LFPS	PDB	PDB		LFPS	LFPS	PDB	PDB	
GC/MS VOA - 8260B		Low	Low	Low	Low		Low	Low	Low	Low	
VOC Constituents of Concern											
Tetrachloroethene	5	10	4.7	3.9	4.5		41	20	11	26	
Trichloroethene	5	1.9	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Vinyl chloride	2	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Other VOC Compounds											
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
1,1,2-Trichloroethane	5	1 U	1 U	1 U	5 U		1 U	1 U	1 U	5 U	
1,1-Dichloroethane	400	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
1,1-Dichloroethene	7	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
2-Butanone (MEK)	200	10 U	10 U	10 U	25 U		10 U	10 U	10 U	25 U	
2-Hexanone	NA	10 U	10 U	10 U	25 U		10 U	10 U	10 U	25 U	
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	25 U		10 U	10 U	10 U	25 U	
Acetone	400	10 U	10 U	10 U	25 U		10 U	10 U	10 U	25 U	
Benzene	5	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Bromoform	80	1 U	1 U	1 U	5 U		1 U	1 U	1 U	5 U	
Bromomethane	NA	5 U	5 U	5 U	1 U		5 U	5 U	5 U	1 U	
Carbon disulfide	400	30	12	2 U	1 U		2 U	2 U	2 U	1 U	
Carbon tetrachloride	5	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Chlorobenzene	100	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Chlorodibromomethane	80	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Chloroethane	NA	5 U	5 U	5 U	1 U		5 U	5 U	5 U	1 U	
Chloroform	80	22	12	5.9	2.9		1.8	1 U	1 U	1 U	
Chloromethane	NA	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
cis-1,3-Dichloropropene	NA	1 U	1 U	1 U	5 U		1 U	1 U	1 U	5 U	
Dichlorobromomethane	80	1.6	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Ethylbenzene	700	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Methylene Chloride	3	5 U	5 U	5 U	5 U		5 U	5 U	5 U	5 U	
Styrene	100	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
Toluene	1,000	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	
trans-1,3-Dichloropropene	NA	1 U	1 U	1 U	5 U		1 U	1 U	1 U	5 U	
Xylenes, Total	10,000	1 U	1 U	1 U	10 U		1 U	1 U	1 U	10 U	
Total VOCs		65.5	28.7	9.8	7.4		42.8	20	11	26	

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria

GC/MS - Gas chromatography/ mass spectrometry

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 5 - Groundwater Analytical Results from Monitoring Wells
State Right of Way, Jonesboro, GA

HSI 10798

Well Sample ID	**Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L**	**MW-15A**					**MW-15B**					**MW-16A**				
Installation Date		9/18/08					9/19/08					9/18/08				
Screen Interval (feet below grade)		27.5-37.5					38.5-48.5					22-32				
Water Bearing Unit		Upper Residuum					Lower Residuum					Upper Residuum				
Lab Sample Number		680-68627-2	680-68627-2	680-90177-14	680-114574-13	680-140434-10	680-68627-1	680-90177-15	680-114574-14	680-140434-11	680-140434-12	680-68710-4	680-90201-13	680-114574-18	680-140434-8	680-140434-14
Sampling Date		5/20/2011	5/20/2011	5/8/2013	7/15/2015	6/26/2017	5/20/2011	5/8/2013	7/15/2015	6/26/2017	6/26/2017	5/23/2011	5/9/2013	7/15/2015	6/26/2017	6/27/2017
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		100	5	5	2	1	1	1	1	1	1	10	5	1	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample Method		LFPS	LFPS	LFPS	LFPS	PDB	LFPS	LFPS	LFPS	PDB	DUP-1	LFPS	LFPS	LFPS	PDB	LFPS
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
VOC Constituents of Concern																
Tetrachloroethene	5	350	370 H	460	320	270	98	110	72	73	71	930	300	400 D	1000	1000
Trichloroethene	5	100 U	70 H	73	87	72	4.5	3.4	3.1	2.2	2.1	110	43	49	140	150
cis-1,2-Dichloroethene	70	100 U	17 H	11	19	15	1.1	1 U	1 U	1 U	1 U	200	55	93	240	260
Vinyl chloride	2	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Other VOC Compounds																
1,1,1-Trichloroethane	200	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
1,1,2-Trichloroethane	5	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	5 U	5 U	10 U	5 U	1 U	25 U	25 U
1,1-Dichloroethane	400	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
1,1-Dichloroethene	7	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
1,2-Dichloroethane	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
1,2-Dichloropropane	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
2-Butanone (MEK)	200	1000 U	50 U	50 U	20 U	25 U	10 U	10 U	10 U	25 U	25 U	100 U	50 U	10 U	130 U	130 U
2-Hexanone	NP	1000 U	50 U	50 U	20 U	25 U	10 U	10 U	10 U	25 U	25 U	100 U	50 U	10 U	130 U	130 U
4-Methyl-2-pentanone (MIBK)	200	1000 U	50 U	50 U	20 U	25 U	10 U	10 U	10 U	25 U	25 U	100 U	50 U	10 U	130 U	130 U
Acetone	400	2500 U	120 U	130 U	20 U	25 U	25 U	25 U	10 U	25 U	25 U	250 U	130 U	10 U	130 U	130 U
Benzene	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Bromoform	80	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	5 U	5 U	10 U	5 U	1 U	25 U	25 U
Bromomethane	NP	100 U	5 U	25 U	10 U	1 U	1 U	5 U	5 U	1 U	1 U	10 U	25 U	5 U	5 U	5 U
Carbon disulfide	400	200 U	10 U	10 U	4 U	1 U	2 U	2 U	2 U	1 U	1 U	20 U	10 U	2 U	5 U	5 U
Carbon tetrachloride	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Chlorobenzene	100	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Chlorodibromomethane	80	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Chloroethane	NP	100 U	5 U	25 U	10 U	1 U	1 U	5 U	5 U	1 U	1 U	10 U	25 U	5 U	5 U	5 U
Chloroform	80	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Chloromethane	NP	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
cis-1,3-Dichloropropene	NP	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	5 U	5 U	10 U	5 U	1 U	25 U	25 U
Dichlorobromomethane	80	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Ethylbenzene	700	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Methylene Chloride	3	500 U	25 U	25 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	25 U	5 U	25 U	25 U
Styrene	100	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
Toluene	1,000	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	5 U	5 U
trans-1,2-Dichloroethene	100	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	2.8	5 U	5 U
trans-1,3-Dichloropropene	NP	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	5 U	5 U	10 U	5 U	1 U	25 U	25 U
Xylenes, Total	10,000	200 U	10 U	10 U	2 U	10 U	2 U	2 U	1 U	10 U	10 U	20 U	10 U	1 U	50 U	50 U
Total VOCs		350	457	544	426	357	103.6	113.4	75.1	75.2	73.1	1240	398	544	1380	1410

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

EHS Support consider it done

Table 5 - Groundwater Analytical Results from Monitoring Wells
State Right of Way, Jonesboro, GA

Well Sample ID	**Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L**	**MW-16B**					**MW-16C**				
Installation Date		9/19/08					39735				
Screen Interval (feet below grade)		34-44					58-68				
Water Bearing Unit		Lower Residuum					Bedrock				
Lab Sample Number		680-68710-3	680-90201-14	680-114574-19	680-140434-6	680-140434-15	680-68627-3	680-90201-15	680-114574-20	680-133511-3	680-140434-7
Sampling Date		5/23/2011	5/9/2013	7/15/2015	6/26/2017	6/27/2017	5/20/2011	5/9/2013	7/15/2015	12/19/2016	6/26/2017
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		10	10	1	5	5	5	5	1	10	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample Method		LFPS	LFPS	LFPS	PDB	LFPS	LFPS	LFPS	LFPS	LFPS	PDB
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
VOC Constituents of Concern											
Tetrachloroethene	5	1200	1000	980 D	710	940	780	840	820 D	800	800
Trichloroethene	5	100	68	92	78	110	61	58	72	80	86
cis-1,2-Dichloroethene	70	210	120	190	160	260	62	72	110	130	120
Vinyl chloride	2	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
1,1,2,2-Tetrachloroethane	0.2	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
1,1,2-Trichloroethane	5	10 U	10 U	1 U	25 U	25 U	5 U	5 U	1 U	10 U	25 U
1,1-Dichloroethane	400	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
1,1-Dichloroethene	7	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
1,2-Dichloroethane	5	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
1,2-Dichloropropane	5	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
2-Butanone (MEK)	200	100 U	100 U	10 U	130 U	130 U	50 U	50 U	10 U	100 U	130 U
2-Hexanone	NP	100 U	100 U	10 U	130 U	130 U	50 U	50 U	10 U	100 U	130 U
4-Methyl-2-pentanone (MIBK)	200	100 U	100 U	10 U	130 U	130 U	50 U	50 U	10 U	100 U	130 U
Acetone	400	250 U	250 U	10 U	130 U	130 U	120 U	130 U	10 U	100 U	130 U
Benzene	5	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Bromoform	80	10 U	10 U	1 U	25 U	25 U	5 U	5 U	1 U	10 U	25 U
Bromomethane	NP	10 U	50 U	5 U	5 U	5 U	5 U	25 U	5 U	50 U	5 U
Carbon disulfide	400	20 U	20 U	2 U	5 U	5 U	10 U	10 U	2 U	20 U	5 U
Carbon tetrachloride	5	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Chlorobenzene	100	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Chlorodibromomethane	80	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Chloroethane	NP	10 U	50 U	5 U	5 U	5 U	5 U	25 U	5 U	50 U	5 U
Chloroform	80	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Chloromethane	NP	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
cis-1,3-Dichloropropene	NP	10 U	10 U	1 U	25 U	25 U	5 U	5 U	1 U	10 U	25 U
Dichlorobromomethane	80	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Ethylbenzene	700	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Methylene Chloride	3	50 U	50 U	5 U	25 U	25 U	25 U	25 U	5 U	50 U	25 U
Styrene	100	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
Toluene	1,000	10 U	10 U	1 U	5 U	5 U	5 U	5 U	1 U	10 U	5 U
trans-1,2-Dichloroethene	100	10 U	10 U	17	5 U	5.9	5 U	5 U	2	10 U	5 U
trans-1,3-Dichloropropene	NP	10 U	10 U	1 U	25 U	25 U	5 U	5 U	1 U	10 U	25 U
Xylenes, Total	10,000	20 U	20 U	1 U	50 U	50 U	10 U	10 U	1 U	10 U	50 U
Total VOCs		1510	1188	1264	948	1315.9	903	970	1004	1010	1006

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 6 - Groundwater Analytical Results from Monitoring Wells
Flint River Shopping Center
8650 Tara Boulevard, Jonesboro, GA
13424D A001

Well Sample ID	Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	MW-19B					MW-19C					MW-19D				MW-20C			
Installation Date		12/05/2012					12/4/2012					9/2/2014				12/4/2012			
Screen Interval (feet below grade)		50-60					75-85					95.5-105.5				35-45			
Water Bearing Unit		Lower Residuum					Bedrock					Bedrock				Bedrock			
Lab Sample Number		680-90099-8	680-107535-9	680-114574-10	680-133511-11	680-140434-5	680-90177-16	680-107535-8	680-114574-9	680-133511-8	680-140434-4	680-107535-7	680-114574-11	680-133511-9	680-140434-3	680-90201-17	680-114236-6	680-133511-4	680-140434-9
Sampling Date		5/7/2013	11/19/2014	7/14/2015	12/19/2016	06/26/2017	5/8/2013	11/19/2014	7/14/2015	12/19/2016	06/26/2017	11/19/2014	7/14/2015	12/19/2016	06/26/2017	5/9/2013	7/2/2015	12/19/2016	06/26/2017
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		5	5	1	5	1	1	2	1	1	1	1	1	1	2	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample Method		LFPS	LFPS	LFPS	PDB	PDB	LFPS	LFPS	LFPS	PDB	PDB	LFPS	LFPS	PDB	PDB	LFPS	LFPS	PDB	PDB
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
VOC Constituents of Concern																			
Tetrachloroethene	5	370	870	370 D	180	150	150	290	200	190	220	94	12	190 H	310	18	53	100	250
Trichloroethene	5	27	67	34	45	19	7.2	18	18	24	31	7.1	1.2	31	30	1.1	5	31	29
cis-1,2-Dichloroethene	70	44	100	47	110	33	14	33	32	51	44	13	1.9	66	51	1.4	4.9	43	25
Vinyl chloride	2	5 U	5 U	1 U	5 U	1 U	1 U	2.0 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Other VOC Compounds																			
1,1,1-Trichloroethane	200	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5 U	5 U	1 U	5 U	5 U	1 U	2 U	1 U	1 U	5 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	5 U
1,1-Dichloroethane	400	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	50 U	50 U	10 U	50 U	25 U	72	20 U	10 U	10 U	25 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	25 U
2-Hexanone	NP	50 U	50 U	10 U	50 U	25 U	10 U	20 U	10 U	10 U	25 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	25 U
4-Methyl-2-pentanone (MIBK)	200	50 U	50 U	10 U	50 U	25 U	10 U	20 U	10 U	10 U	25 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	25 U
Acetone	400	130 U	50 U	10 U	50 U	25 U	25 U	20 U	10 U	10 U	25 U	10 U	10 U	10 U	50 U	25 U	10 U	10 U	25 U
Benzene	5	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Bromoform	80	5 U	5 U	1 U	5 U	5 U	1 U	2 U	1 U	1 U	5 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	5 U
Bromomethane	NP	25 U	25 U	5 U	25 U	1 U	5 U	10 U	5 U	5 U	1 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	1 U
Carbon disulfide	400	10 U	10 U	2 U	10 U	1 U	2 U	4 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Carbon tetrachloride	5	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Chloroethane	NP	25 U	25 U	5 U	25 U	1 U	5 U	10 U	5 U	5 U	1 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	1 U
Chloroform	80	5 U	5 U	1 U	5 U	1 U	5	2 U	1 U	1 U	1 U	11	1 U	1 U	2 U	1.1	1 U	1 U	1 U
Chloromethane	NP	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	5 U	5 U	1 U	5 U	5 U	1 U	2 U	1 U	1 U	5 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	5 U
Dichlorobromomethane	80	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	25 U	25 U	5 U	25 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U
Styrene	100	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Toluene	1,000	5 U	5 U	1 U	5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	1	5 U	1 U	1 U	2 U	1.2	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	5 U	5 U	1 U	5 U	5 U	1 U	2 U	1 U	1 U	5 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	5 U
Xylenes, Total	10,000	10 U	10 U	1 U	5 U	10 U	2 U	4 U	1 U	1 U	10 U	2 U	1 U	1 U	20 U	2 U	1 U	1 U	10 U
Total VOCs		441	1037	452	335	202	248	341	251	265	295	125	16	287	391	22	63	174	304

Monitoring Well MW-19A is not including in Corrective Action monitoring program; therefore, historic data is not shown.

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 7 - Surface Water Analytical Results from Unnamed Creek
Groundwater Corrective Action Plan
Jonesboro, GA

Sample ID	Georgia Water Quality Standards October 2015	Ecological Screening Values Region 4 Surface Water Screening Values for Hazardous Waste Sites 2015		OF-2			SS-1			SS-2			SS-3	
Sample Location				Storm water Outfall			Stream Sample (~85 feet from OF-1)			Stream Sample (~170 feet from SS-1)			Stream Sample (~550 feet from SS-2)	
Lab Sample Number				680-114593-2	680-133594-2	680-140434-16*	680-114593-3	680-133594-1	680-140434-17	680-114593-4	680-133511-5	680-140434-18	680-133511-10	680-140434-19
Sampling Date				7/16/2015	12/19/2016	6/27/2017	7/16/2015	12/19/2016	6/27/2017	7/16/2015	12/19/2016	6/27/2017	12/19/2016	6/27/2017
Matrix				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor				1	1	1	1	1	1	1	1	1	1	1
Units		Chronic	Acute	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	ug/L
Sample Method				Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
GC/MS VOA - 8260B														
VOC Constituents of Concern														
Tetrachloroethene	3.3	53	430	76	27	94	36	82	46	17	14	34	34	17
Trichloroethene	30	200	2,000	12	4.7	14	2.7	7.7	5.7	1 U	1.5	2.9	3.2	1.8
cis-1,2-Dichloroethene	1	620	5,500	5.9	3	8.0	2.3	9.6	5.4	1 U	1.4	2.4	3.7	1.4
Vinyl chloride	2.4	930	8,400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds														
1,1,1-Trichloroethane	NA	76	690	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	4.0	200	910	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NA	730	3,200	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	5 U
1,1-Dichloroethane	NA	410	3,700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7,100	130	1,200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	37	2,000	8,200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	15	520	3,300	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	NA	22,000	200,000	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	25 U
2-Hexanone	NA	99	1,800	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	25 U
4-Methyl-2-pentanone (MIBK)	NA	170	2,200	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	25 U
Acetone	NA	1,700	15,000	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	25 U
Benzene	51	160	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	140	230	1,100	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	5 U
Bromomethane	1,500	16	38	5 U	5 U	1 U	5 U	5 U	1 U	5 U	5 U	1 U	5 U	1 U
Carbon disulfide	NA	15	130	2 U	2 U	1 U	2 U	2 U	1 U	2 U	2 U	1 U	2 U	1 U
Carbon tetrachloride	1.6	77	690	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1,600	25	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	13	320	2,900	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NA	NA	NA	5 U	5 U	1 U	5 U	5 U	1 U	5 U	5 U	1 U	5 U	1 U
Chloroform	470	140	1,300	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	21	1.7	15	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	5 U
Dichlorobromomethane	17	340	3,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	2100	61	550	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	590	1,500	8,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	NA	32	290	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5,980	62	560	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	10,000	558	10,046	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	21	1.7	15	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	5 U
Xylenes, Total	NA	27	240	1 U	1 U	10 U	1 U	1 U	10 U	1 U	1 U	10 U	1 U	10 U
Total VOCs				93.9	34.7	116	41	99.3	57.1	17	16.9	39.3	40.9	20.2

QUALIFIERS

NA	Not Available
µg/L	micrograms per liter
GC/MS VOA - 8260B	Gas Chromatography/Mass Spec Volatile Organic Analysis USEPA Method 8260B
U	Value not detected above the laboratory reporting limit.
Underline	Exceedance of Chronic Ecological Screening Values Region 4 Surface Water Screening Values
Yellow	Exceedance of Georgia Water Quality Standards for Surface Water

* Sample was inadvertently identified as OF-1, but was collected at OF-2

Table 8 - Soil Gas Sampling Program
Groundwater Corrective Action Plan
Tara Shopping Center 8564 Tara Boulevard, Jonesboro, GA

Sample Identification	Screened Interval (ft-below grade)	Location	Parcel Identification	Analysis	Sample Collection Date
SG-TSC-01S	2.25-2.75	Tara Shopping Center	13242D B001	TO-15 (30-minute 6 liter SUMMA)	12/6/2017
SG-TSC-02S	3.25-3.75				12/5/2017
SG-TSC-03S	2.75-3.25				12/6/2017
SG-TSC-04S	2.25-2.75				12/5/2017
SG-TSC-05S SG-TSC-05S-DUP*	2.5-3.0				12/6/2017
SG-TSC-05D	18.5-19.0				12/7/2017
SG-AMB-01S	2.25-2.75	Out Parcel	13242D A012		12/6/2017
SG-AMB-02S	2.25-2.75				12/6/2017
SG-AMB-02D	11.75-12.25				12/6/2017
SG-FRSC-01S	4.5-5.0	Flint River Shopping Center	13242D A001		12/6/2017
SG-FRSC-02S	2.5-3.0				12/6/2017
SG-FRSC-02D	9.5-10.0				12/7/2017

*Duplicate Sample Collected

"S" designates screen placed within upper residuum near building slab.

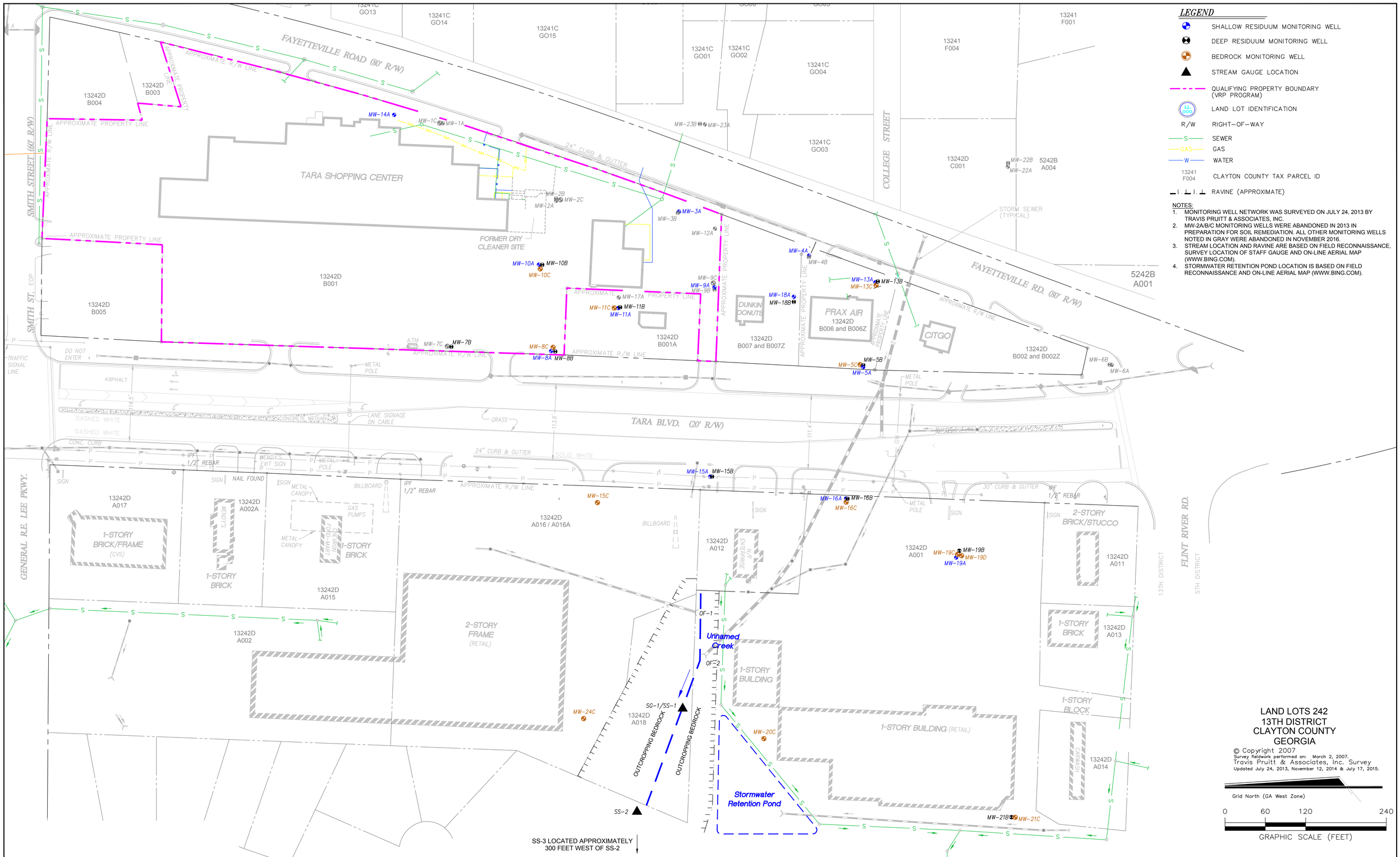
"D" designates screen placed within 3 feet above water table interface.

Table 9 - Streamlined Uniform Environmental Covenants
Groundwater Corrective Action Plan
Tara Shopping Center 8564 Tara Boulevard, Jonesboro, GA

	Property	Owner	Address	Letter Sent Date	Response from Owner
1	13242D A001	KOB INVESTMENTS LLC & ETAL % NEWBURGER-ANDES REAL EST INV	8639 TARA BLVD	April 4, 2017	Yes
2	13242D A012	ALEMBIK JUDITH & ETAL	8633 TARA BLVD		
3	13242D A016 and A018	CB PROPERTY MANAGEMENT & DEVELOPMENT LLC	8557 TARA BLVD	February 13, 2017	No
4	13242D B001	SUHWEIL SADI S*	8596 TARA BLVD	May 15, 2017	No
5	13242D B002 and B002Z	SONU ENTERPRISES INC	8664 TARA BLVD	February 13, 2017	No
6	13242D B006 and B006Z	LUMSDEN PROPERTIES LLC	8660 TARA BLVD	May 4, 2017	No
7	13242D B007 and B007Z	AL-KARIM PARTNERSHIP	8650 TARA BLVD	February 13, 2017	No

Notes:
Changed Ownership again after submitted.

FIGURES



LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- DEEP RESIDUUM MONITORING WELL
- BEDROCK MONITORING WELL
- STREAM GAUGE LOCATION
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- LAND LOT IDENTIFICATION
- R/W — RIGHT-OF-WAY
- S — SEWER
- GAS — GAS
- W — WATER
- 13241 F004 — CLAYTON COUNTY TAX PARCEL ID
- RAVINE (APPROXIMATE)

NOTES:

1. MONITORING WELL NETWORK WAS SURVEYED ON JULY 24, 2013 BY TRAVIS PRUITT & ASSOCIATES, INC.
2. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION. ALL OTHER MONITORING WELLS NOTED IN GRAY WERE ABANDONED IN NOVEMBER 2016.
3. STREAM LOCATION AND RAVINE ARE BASED ON FIELD RECONNAISSANCE, SURVEY LOCATION OF STAFF GAUGE AND ON-LINE AERIAL MAP (WWW.BING.COM).
4. STORMWATER RETENTION POND LOCATION IS BASED ON FIELD RECONNAISSANCE AND ON-LINE AERIAL MAP (WWW.BING.COM).

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014 & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240

GRAPHIC SCALE (FEET)

EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

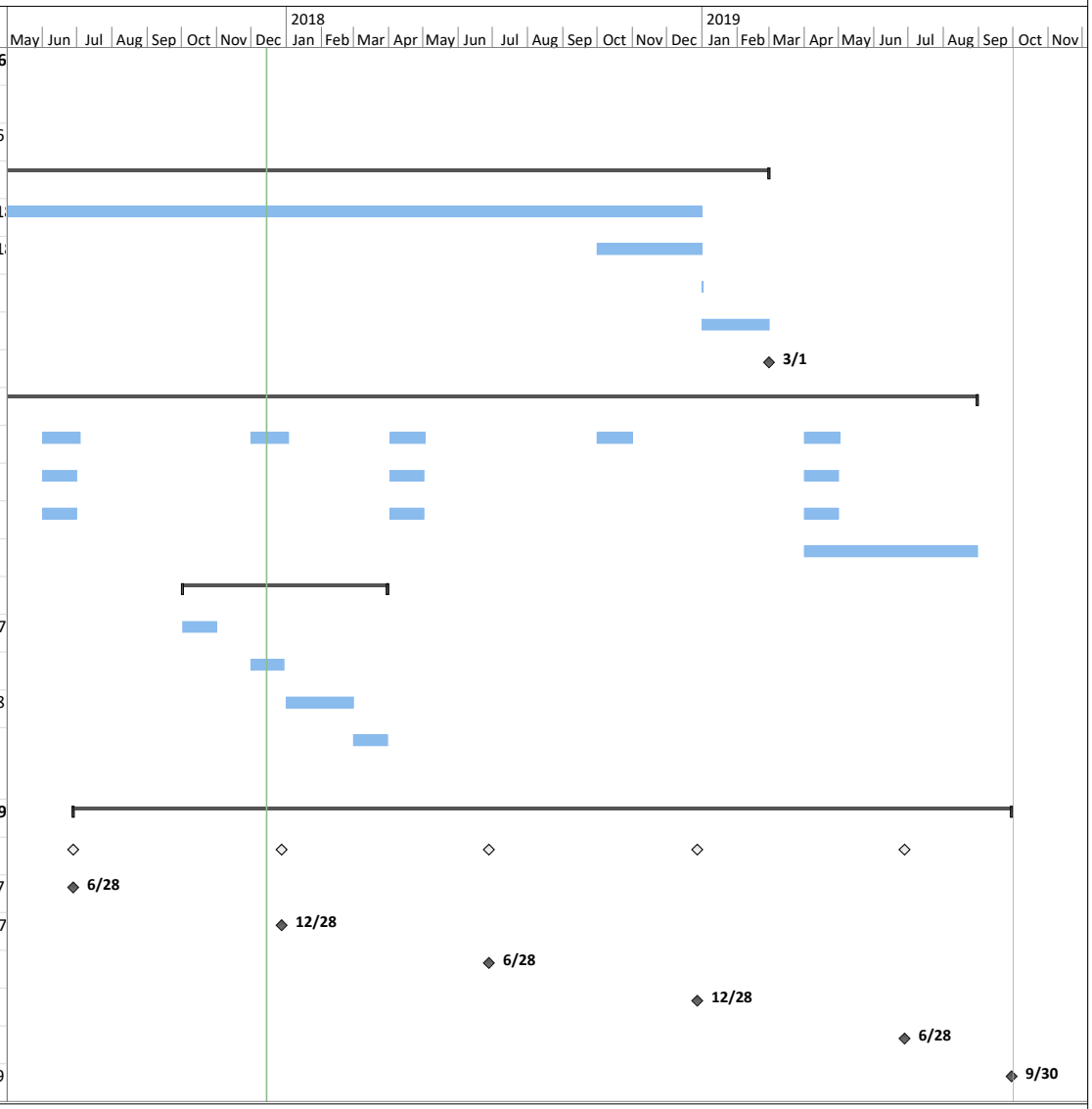
TARA HOLDINGS
8564 TARA BOULEVARD
JONESBORO, GEORGIA

FIGURE 1
MONITORING WELL NETWORK
HSI 10798

Drawn By:	MDO	Date Drawn:	01/2017
Reviewed By:	MSS	Date Reviewed:	01/2017
Scale:	1" = 60'	Plot Date:	01/2017
Project No.:	C00342	Figure 1	

Figure 2
Tara Shopping Center/ Alterman Enterprises (HSI 10798)
Remediation Schedule
Corrective Action Plan Implementation
Revised December 2017

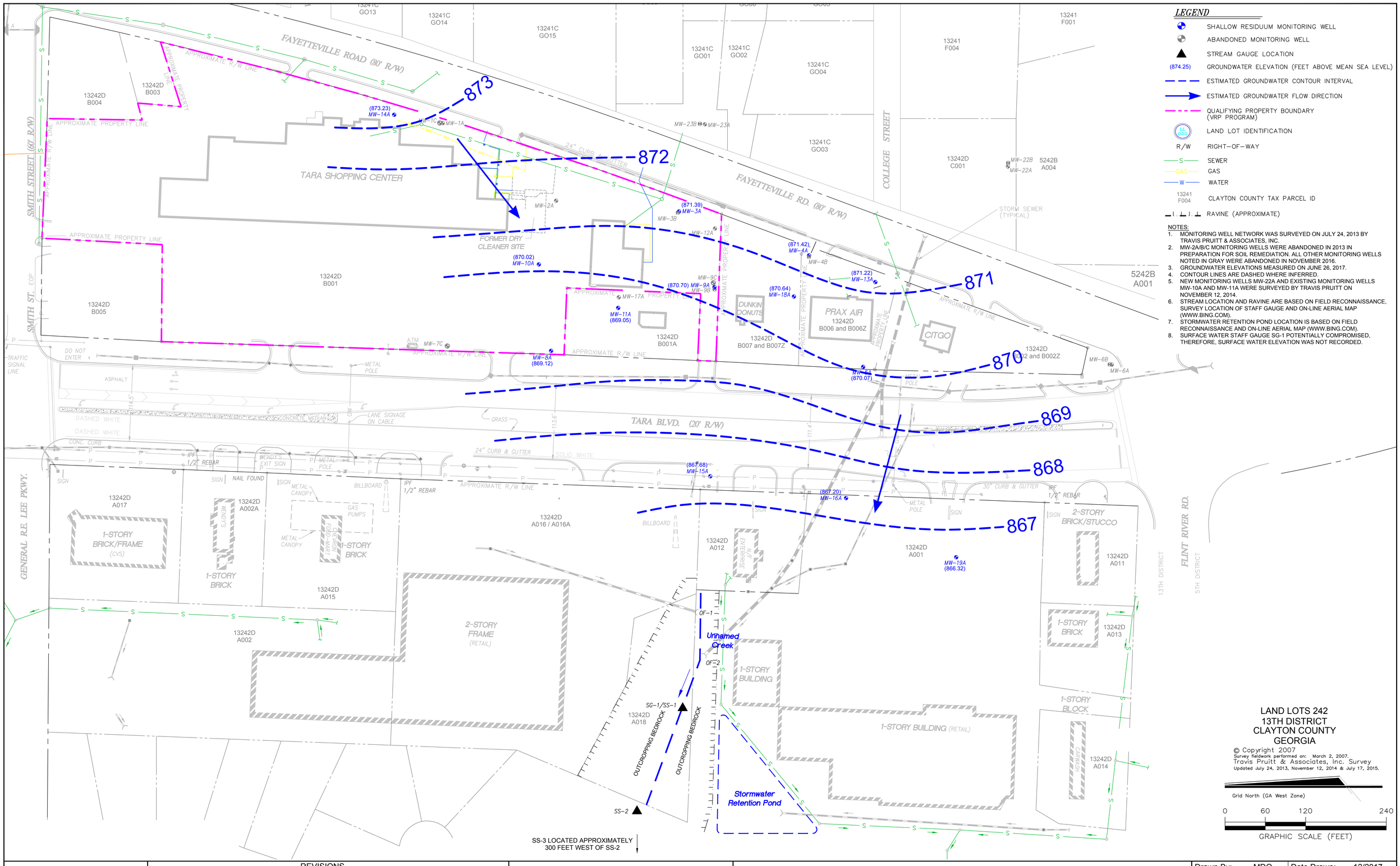
ID	Number	Task Name	Duration	Start	Finish
1	**1**	**Groundwater Corrective Action Plan**	**112 days**	**Thu 3/17/16**	**Mon 8/22/16**
2	1.1	Submittal - Mar 17, 2016	0 days	Thu 3/17/16	Thu 3/17/16
3	1.2	GA EPD Approval - Aug 22, 2016	0 days	Mon 8/22/16	Mon 8/22/16
4	**2**	**Streamlined Uniform Environmental Covenant**	**651 days**	**Thu 9/1/16**	**Fri 3/1/19**
5	2.1	Negotiation with Property Owners	608 days	Thu 9/1/16	Mon 12/31/18
6	2.2	Record with Clayton County	66 days	Mon 10/1/18	Mon 12/31/18
7	2.3	Final Distribution to GA EPD	1 day	Tue 1/1/19	Tue 1/1/19
8	2.4	GA EPD Review	43 days	Tue 1/1/19	Thu 2/28/19
9	2.5	GA EPD Approval	0 days	Fri 3/1/19	Fri 3/1/19
10	**3**	**Point of Demonstration Monitoring**	**717 days**	**Thu 12/1/16**	**Fri 8/30/19**
11	**3.1**	Semi-Annual Monitoring	**630 days**	**Thu 12/1/16**	**Wed 5/1/19**
18	**3.2**	Annual Monitoring	**499 days**	**Thu 6/1/17**	**Tue 4/30/19**
22	**3.3**	Annual Well Inspection	**499 days**	**Thu 6/1/17**	**Tue 4/30/19**
26	3.4	Evaluation of Monitoring Frequency	110 days	Mon 4/1/19	Fri 8/30/19
27	**4**	**Vapor Intrusion Assessment**	**130 days**	**Mon 10/2/17**	**Fri 3/30/18**
28	4.1	Installation of Soil Vapor Implants	22 days	Mon 10/2/17	Tue 10/31/17
29	4.2	Initial Soil Gas Sampling	21 days	Fri 12/1/17	Fri 12/29/17
30	4.3	Data Evaluation	43 days	Mon 1/1/18	Wed 2/28/18
31	4.4	Data Presentation/Conclusions and Recommendation	22 days	Thu 3/1/18	Fri 3/30/18
32	**5**	**Deliverables**	**588 days**	**Wed 6/28/17**	**Mon 9/30/19**
33	**5.1**	VRP Semi-Annual Progress Reports	522 days	Wed 6/28/17	Fri 6/28/19
34		VRP Semi-Annual Progress Reports 10	0 days	Wed 6/28/17	Wed 6/28/17
35		VRP Semi-Annual Progress Reports 11	0 days	Thu 12/28/17	Thu 12/28/17
36		VRP Semi-Annual Progress Reports 12	0 days	Thu 6/28/18	Thu 6/28/18
37		VRP Semi-Annual Progress Reports 13	0 days	Fri 12/28/18	Fri 12/28/18
38		VRP Semi-Annual Progress Reports 14	0 days	Fri 6/28/19	Fri 6/28/19
39	5.2	Compliance Status Report	0 days	Mon 9/30/19	Mon 9/30/19



Project: Groundwater CAP
Date: Fri 12/15/17

Task
Split
Milestone
Summary
Project Summary
External Tasks
External Milestone
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
Deadline
Progress
Manual Progress

Note: Assumes POBs will be deployed at end of prior sampling event. Results of VI Assessment activities will be presented in semi-annual status report.



LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE LOCATION
- (874.25) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- ESTIMATED GROUNDWATER CONTOUR INTERVAL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- LL 000 LAND LOT IDENTIFICATION
- R/W RIGHT-OF-WAY
- S SEWER
- GAS GAS
- W WATER
- 13241 F004 CLAYTON COUNTY TAX PARCEL ID
- RAVINE (APPROXIMATE)

NOTES:

1. MONITORING WELL NETWORK WAS SURVEYED ON JULY 24, 2013 BY TRAVIS PRUITT & ASSOCIATES, INC.
2. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION. ALL OTHER MONITORING WELLS NOTED IN GRAY WERE ABANDONED IN NOVEMBER 2016.
3. GROUNDWATER ELEVATIONS MEASURED ON JUNE 26, 2017.
4. CONTOUR LINES ARE DASHED WHERE INFERRED.
5. NEW MONITORING WELLS MW-22A AND EXISTING MONITORING WELLS MW-10A AND MW-11A WERE SURVEYED BY TRAVIS PRUITT ON NOVEMBER 12, 2014.
6. STREAM LOCATION AND RAVINE ARE BASED ON FIELD RECONNAISSANCE, SURVEY LOCATION OF STAFF GAUGE AND ON-LINE AERIAL MAP (WWW.BING.COM).
7. STORMWATER RETENTION POND LOCATION IS BASED ON FIELD RECONNAISSANCE AND ON-LINE AERIAL MAP (WWW.BING.COM).
8. SURFACE WATER STAFF GAUGE SG-1 POTENTIALLY COMPROMISED, THEREFORE, SURFACE WATER ELEVATION WAS NOT RECORDED.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014 & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240

GRAPHIC SCALE (FEET)

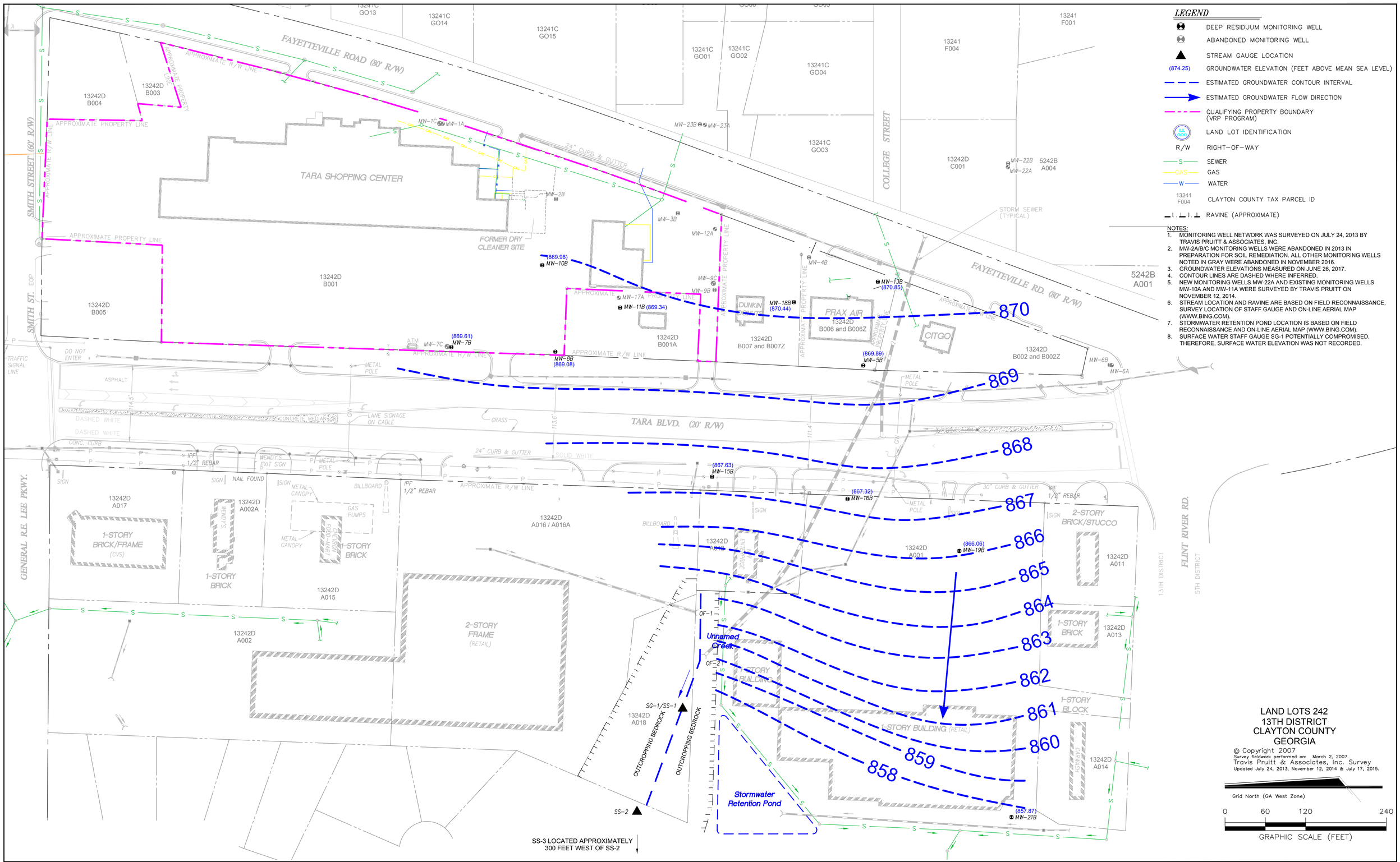
EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA HOLDINGS
8564 TARA BOULEVARD
JONESBORO, GEORGIA

FIGURE 3
UPPER RESIDUUM POTENTIOMETRIC SURFACE CONTOUR: JUNE 26, 2017

Drawn By:	MDO	Date Drawn:	12/2017
Reviewed By:	MSS	Date Reviewed:	12/2017
Scale:	1" = 60'	Plot Date:	12/2017
Project No.:	C00342	Figure 6	



LEGEND

- DEEP RESIDUUM MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE LOCATION
- (874.25) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- ESTIMATED GROUNDWATER CONTOUR INTERVAL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- LL 000 LAND LOT IDENTIFICATION
- R/W RIGHT-OF-WAY
- S SEWER
- GAS GAS
- W WATER
- 13241 F004 CLAYTON COUNTY TAX PARCEL ID
- RAVINE (APPROXIMATE)

NOTES:

1. MONITORING WELL NETWORK WAS SURVEYED ON JULY 24, 2013 BY TRAVIS PRUITT & ASSOCIATES, INC.
2. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION. ALL OTHER MONITORING WELLS NOTED IN GRAY WERE ABANDONED IN NOVEMBER 2016.
3. GROUNDWATER ELEVATIONS MEASURED ON JUNE 26, 2017.
4. CONTOUR LINES ARE DASHED WHERE INFERRED.
5. NEW MONITORING WELLS MW-22A AND EXISTING MONITORING WELLS MW-10A AND MW-11A WERE SURVEYED BY TRAVIS PRUITT ON NOVEMBER 12, 2014.
6. STREAM LOCATION AND RAVINE ARE BASED ON FIELD RECONNAISSANCE, SURVEY LOCATION OF STAFF GAUGE AND ON-LINE AERIAL MAP (WWW.BING.COM).
7. STORMWATER RETENTION POND LOCATION IS BASED ON FIELD RECONNAISSANCE AND ON-LINE AERIAL MAP (WWW.BING.COM).
8. SURFACE WATER STAFF GAUGE SG-1 POTENTIALLY COMPROMISED, THEREFORE, SURFACE WATER ELEVATION WAS NOT RECORDED.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014 & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240
GRAPHIC SCALE (FEET)

EHS Support consider it done

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Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

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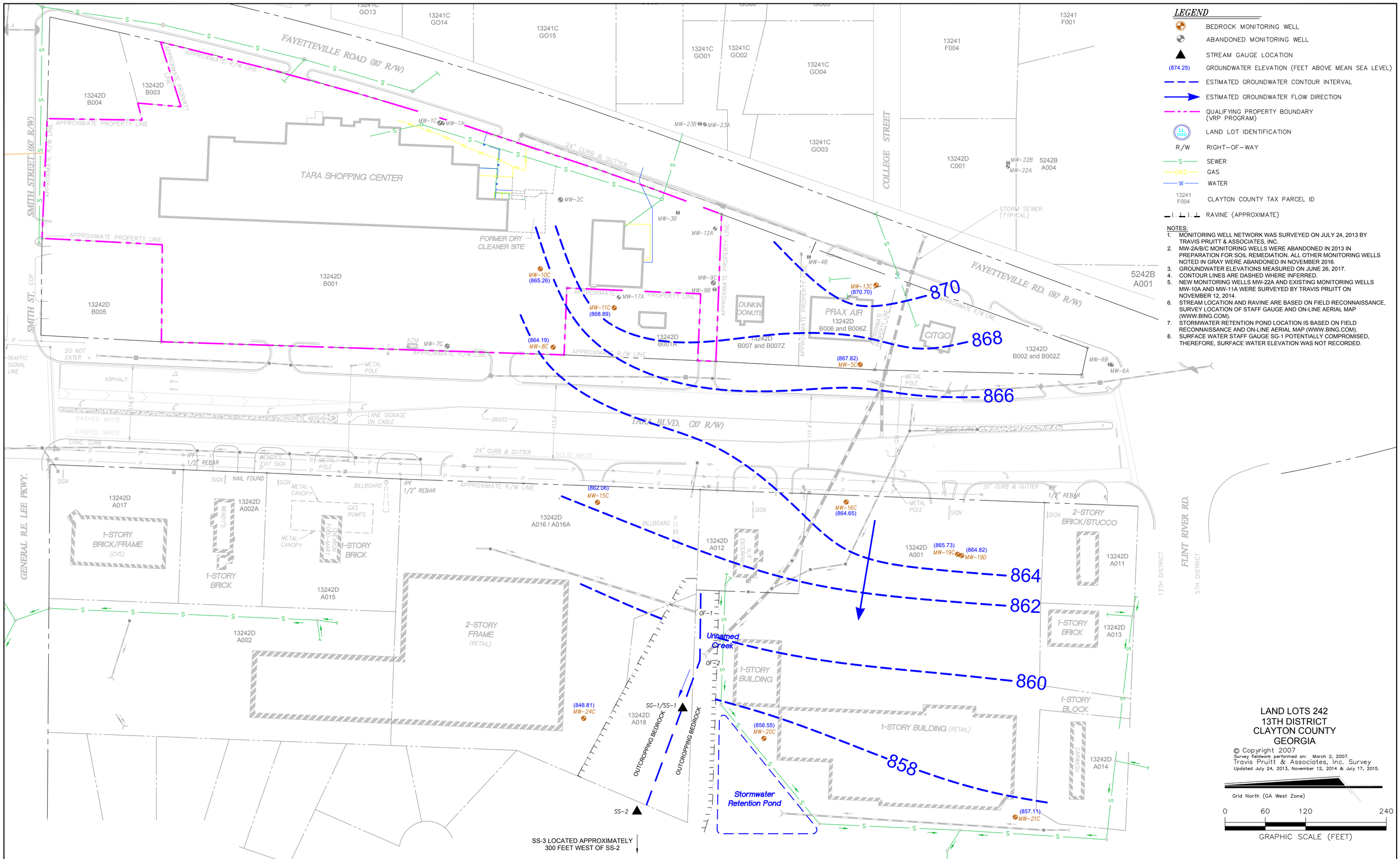
JONESBORO, GEORGIA

FIGURE 4
LOWER RESIDUUM POTENTIOMETRIC SURFACE CONTOUR: JUNE 26, 2017

Drawn By:	MDO	Date Drawn:	12/2017
Reviewed By:	MSS	Date Reviewed:	12/2017
Scale:	1" = 60'	Plot Date:	12/2017
Project No.:	C00342	Figure 7	



LEGEND

- BEDROCK MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE LOCATION
- (874.25) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- ESTIMATED GROUNDWATER CONTOUR INTERVAL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- LAND LOT IDENTIFICATION
- R/W RIGHT-OF-WAY
- S SEWER
- GAS GAS
- W WATER
- 13241 F004 CLAYTON COUNTY TAX PARCEL ID
- RAVINE (APPROXIMATE)

NOTES:

1. MONITORING WELL NETWORK WAS SURVEYED ON JULY 24, 2013 BY TRAVIS PRUITT & ASSOCIATES, INC.
2. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION. ALL OTHER MONITORING WELLS NOTED IN GRAY WERE ABANDONED IN NOVEMBER 2016.
3. GROUNDWATER ELEVATIONS MEASURED ON JUNE 26, 2017.
4. CONTOUR LINES ARE DASHED WHERE INFERRED.
5. NEW MONITORING WELLS MW-22A AND EXISTING MONITORING WELLS MW-10A AND MW-11A WERE SURVEYED BY TRAVIS PRUITT ON NOVEMBER 12, 2014.
6. STREAM LOCATION AND RAVINE ARE BASED ON FIELD RECONNAISSANCE, SURVEY LOCATION OF STAFF GAUGE AND ON-LINE AERIAL MAP (WWW.BING.COM).
7. STORMWATER RETENTION POND LOCATION IS BASED ON FIELD RECONNAISSANCE AND ON-LINE AERIAL MAP (WWW.BING.COM).
8. SURFACE WATER STAFF GAUGE SG-1 POTENTIALLY COMPROMISED, THEREFORE, SURFACE WATER ELEVATION WAS NOT RECORDED.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014 & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240
GRAPHIC SCALE (FEET)

EHS Support consider it done

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Rev.		By:	Disc.:	Date:

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8564 TARA BOULEVARD
JONESBORO, GEORGIA

FIGURE 5
BEDROCK POTENTIOMETRIC SURFACE CONTOUR: JUNE 26, 2017

Drawn By:	MDO	Date Drawn:	12/2017
Reviewed By:	MSS	Date Reviewed:	12/2017
Scale:	1" = 60'	Plot Date:	12/2017
Project No.:	C00342	Figure 8	

FAYETTEVILLE ROAD (80' R/W)

APPROXIMATE R/W LINE

APPROXIMATE PROPERTY LINE

13242D B003

13241C GO15

13241C GO01

13241C GO02

MW-14A

MW-1C MW-1A

MW-23B MW-23A

24" CURB & GUTTER

TARA SHOPPING CENTER

SG-TSC-01

MW-2B MW-2C MW-2A

SG-TSC-03

MW-3A MW-3B

MW-12A

SG-TSC-02

FORMER DRY CLEANER SITE

SG-TSC-04

MW-10A MW-10B MW-10C

SG-TSC-05 SG-TSC-05D

MW-9C MW-9A MW-9B

MW-17A

MW-11C MW-11B MW-11A

13242D B001

13242D B001A

ATM

MW-7C MW-7B

MW-8C MW-8A MW-8B

METAL POLE

Grid North (GA West Zone)

0 30 60 120

GRAPHIC SCALE (FEET)

LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- DEEP RESIDUUM MONITORING WELL
- BEDROCK MONITORING WELL
- SOIL GAS IMPLANT (SHALLOW)
- SOIL GAS IMPLANT (DEEP)
- ABANDONED WELL LOCATION
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- LAND LOT IDENTIFICATION
- R/W RIGHT-OF-WAY
- S SEWER
- GAS GAS
- W WATER
- 13241 F004 CLAYTON COUNTY TAX PARCEL ID

Note:

SVI IMPLANTS SURVEYED BY TRAVIS PRUITT ON DECEMBER 7, 2017. DATA PENDING FROM SURVEYOR.

EHS Support *consider it done*

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Rev.		By:	Disc.:	Date:

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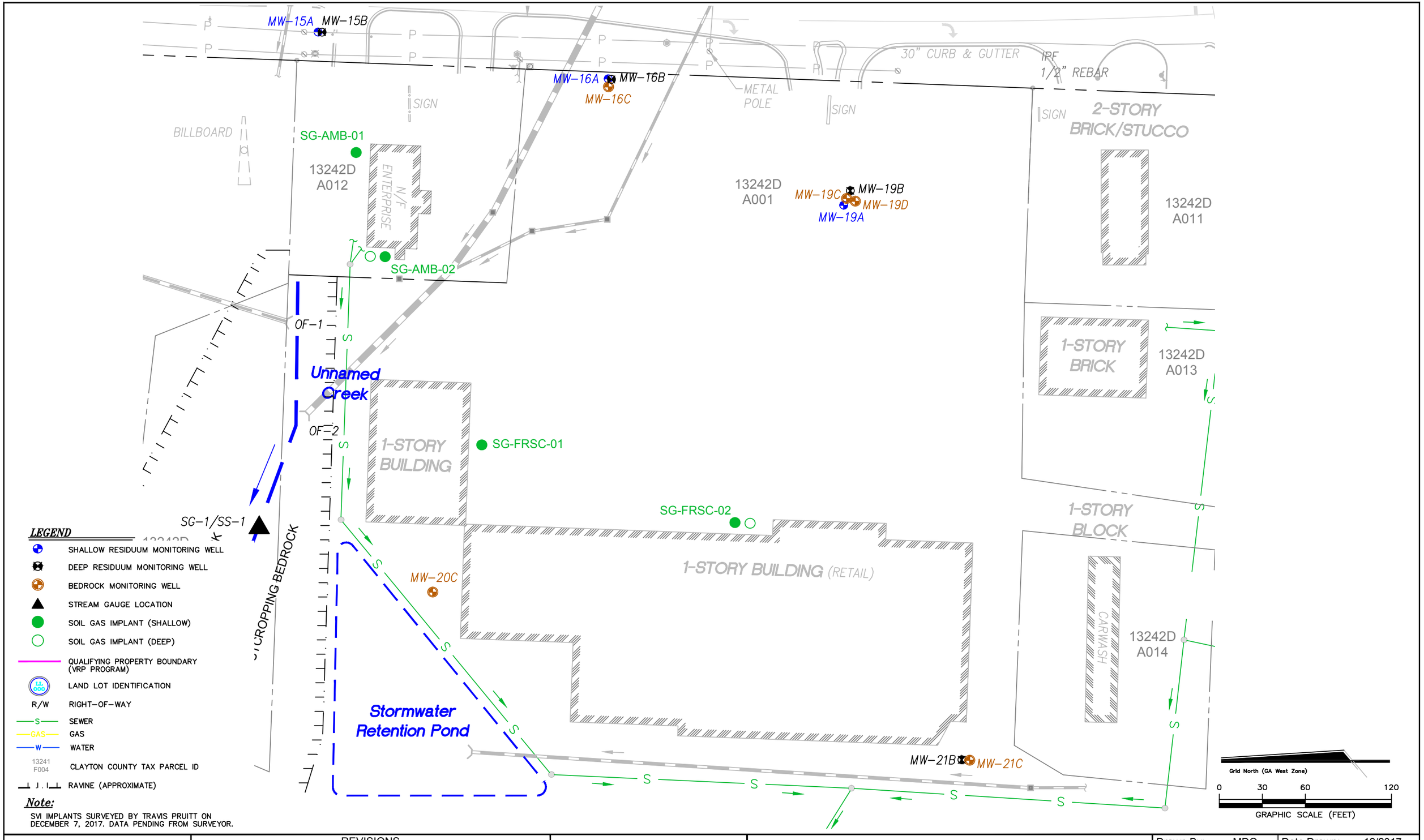
8564 TARA BOULEVARD
JONESBORO, GEORGIA

FIGURE 6
SOIL GAS IMPLANT LOCATIONS
TARA SHOPPING CENTER, JONESBORO, GA.
PARCEL 13242D B001

Drawn By:	MDO	Date Drawn:	12/2017
Reviewed By:	MSS	Date Reviewed:	12/2017
Scale:	1" = 60'	Plot Date:	12/2017
Project Number.:	C00342		



Note:

SVI IMPLANTS SURVEYED BY TRAVIS PRUITT ON DECEMBER 7, 2017. DATA PENDING FROM SURVEYOR.

EHS Support *consider it done*

REVISIONS				
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Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA HOLDINGS
8564 TARA BOULEVARD
JONESBORO, GEORGIA

FIGURE 7
SOIL GAS IMPLANT LOCATIONS
FLINT RIVER SHOPPING CENTER, JONESBORO, GA.
PARCEL 13242D A001 AND A012

Drawn By:	MDO	Date Drawn:	12/2017
Reviewed By:	MSS	Date Reviewed:	12/2017
Scale:	1" = 60'	Plot Date:	12/2017
Project Number.:	C00342		

APPENDIX A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2852 Alton Ave., Irvine CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address:
EHS Support LLC
228 4th Ave
Decatur, GA 30030

Project/PO Number:
Project: Ashland Alterman (Jonesboro)
Job Description: 062017
Job #: 00342 2017-400

Project Manager:
Kris Spikes, EHS Support

Phone Number:
(678) 622-6050

Sampler: Kris Spikes and Mark Smith

Fax Number:

Note:

Sample Description	Sample Matrix	Container Type	# of Cont.	Date	Time	Preservation	Analysis Required: 8260B - VOCs	Special Instructions
MW-13B	W	40 ML VOA	2	26-Jun	1247	HCl	X	
MW-13A	W	40 ML VOA	3	26-Jun	1253	HCL	X	
MW-19D	W	40 ML VOA	3	26-Jun	1353	HCL	X	
MW-19C	W	40 ML VOA	3	26-Jun	1348	HCL	X	
MW-19B	W	40 ML VOA	3	26-Jun	1340	HCL	X	
MW-16B	W	40 ML VOA	3	26-Jun	1425	HCL	X	
MW-16C	W	40 ML VOA	3	26-Jun	1420	HCL	X	
MW-16A	W	40 ML VOA	3	26-Jun	1422	HCL	X	Report J Flags
MW-20C	W	40 ML VOA	3	26-Jun	1500	HCL	X	
MW-15A	W	40 ML VOA	3	26-Jun	1610	HCL	X	
MW-15B	W	40 ML VOA	3	26-Jun	1615	HCL	X	
DUP-1	W	40 ML VOA	3	26-Jun	1620	HCL	X	
EB-1	W	40 ML VOA	3	27-Jun	925	HCL	X	
MW-16A-LF	W	40 ML VOA	3	27-Jun	1120	HCL	X	
MW-16B-LF	W	40 ML VOA	3	27-Jun	1025	HCL	X	
OF-1	W	40 ML VOA	3	27-Jun	1140	HCL	X	
SS-1	W	40 ML VOA	3	27-Jun	1145	HCL	X	
SS-2	W	40 ML VOA	3	27-Jun	1150	HCL	X	
SS-3	W	40 ML VOA	3	27-Jun	1214	HCL	X	
TRIP BLANK	W	40 ML VOA	3	14-Jun	1300	HCL	X	

Relinquished By: Kris Spikes Date /Time: 06/28/17 1100
Relinquished By: Date /Time:
Relinquished By: Date /Time:

Received by: Date /Time: 6/28/17 1612
Received By: Date /Time:
Received in Lab by: Date /Time:

Turnaround Time: (Check)
Same Day ____ 72 Hours:
24 Hours ____ 5 Days:
48 Hours ____ Normal: ALL

Sample Integrity: (Check)
Intact ____ On Ice ____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2852 Alton Ave., Irvine CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address:
EHS Support LLC
228 4th Ave
Decatur, GA 30030

Project/PO Number:
Project: Ashland Alterman (Jonesboro)
Job Description: 062017
Job #: 00342 2017-400

Project Manager:
Kris Spikes, EHS Support

Phone Number:
(678) 522-6050

Sampler: Kris Spikes and Mark Smith

Fax Number:

Note:

Sample Description	Sample Matrix	Container Type	# of Cont.	Date	Time	Preservation	Analysis Required: 8260B - VOCs	Special Instructions
MW-15C	W	40 ML VOA	3	26-Jun	1535	HCL	X	
MW-24C	W	40 ML VOA	3	26-Jun	1545	HCL	X	
								HOLD SAMPLES
								Report J Flags

Relinquished By: Kris Spikes Date /Time: 06/28/17 1100
Relinquished By: Date /Time:
Relinquished By: Date /Time:

Received by: Date /Time:
Received by: Date /Time: 6/28/17 1100
Received in Lab by: Date /Time:

Turnaround Time: (Check)
Same Day ____ 72 Hours:
24 Hours ____ 5 Days:
48 Hours ____ Normal: ALL

Sample Integrity: (Check)
Intact ____ On Ice ____

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman Date: 06/29/17 Well ID: MW-3A
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground (Flush-to-ground)
Type of Well: (circle)
(Monitoring) Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 21.02 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 25.17 below TOC
Installation Total Depth (from log): 25'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / (Lockable exp. cap)
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box (slightly elevated), flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Afterman **Date:** 06/26/17 **Well ID:** MW-4A
Project No: _____ **Technician(s):** SP, EC **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 13.21 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 25.4 below TOC
Installation Total Depth (from log): 25'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman **Date:** 06/26/17 **Well ID:** MW-5A
Project No: **Technician(s):** Spikes **Picture No:**

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other:
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other:
Depth To Product: — below TOC
Depth To GW/SWL: 13.41 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 24.94 below TOC
Installation Total Depth (from log): 25'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman Date: 06/26/17 Well ID: MW-5B
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground (Flush-to-ground)
Type of Well: (circle)
(Monitoring) Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 13.54 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 45.28' below TOC
Installation Total Depth (from log): 46'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/27/17 **Well ID:** MW-SC
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 15.82 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 90.05 below TOC
Installation Total Depth (from log): 90'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 04/26/17 Well ID: MW-7B
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 27.32 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 32.96 below TOC
Installation Total Depth (from log): 33'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover lid present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 01/26/17 Well ID: MW-8A
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 26.02 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 31.78' below TOC
Installation Total Depth (from log): 32'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?	X		Cracked pad
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?			
Does the well casing allow for a cap seal?		X	Bad cap, No lock
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-8B
Project No: _____ **Technician(s):** SpiKS **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 25.94 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 57.33 below TOC
Installation Total Depth (from log): 57'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	–	–	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover ring present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-8C
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 30.85 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 85.14 below TOC
Installation Total Depth (from log): 85'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Afterman Date: 06/28/17 Well ID: MW-9A
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 20.95 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 30.28 below TOC
Installation Total Depth (from log): 30'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-10A
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? ☒ Yes ☐ No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? ☐ Yes ☒ No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 26.74 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 37.98 below TOC
Installation Total Depth (from log): 37

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	–	–	–
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	–	–	–
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 04/26/17 **Well ID:** MW-103
Project No: **Technician(s):** Spikes **Picture No:**

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 26.57 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 49.49 below TOC
Installation Total Depth (from log): 50'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-10C
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? ☒ Yes ☐ No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? ☐ Yes ☒ No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 31.39 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 88.07 below TOC
Installation Total Depth (from log): 88'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman Date: 06/26/17 Well ID: MW-11A
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried / Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 24.85 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 30.14 below TOC
Installation Total Depth (from log): 30'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover/lid present or in good condition?	X		
What is the diameter of the well box?	8"	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)	X		Not to TOC
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?			
Does the well box have a pressure relief or venting device?			

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman Date: 06/26/17 Well ID: MW-11B
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 24.45 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 56.78' below TOC
Installation Total Depth (from log): 56'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-11C
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? ☒ Yes ☐ No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? ☐ Yes ☒ No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 25.17 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 87.94 below TOC
Installation Total Depth (from log): ~~87.94~~ 88'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?			2 bolts cracked off in thread
Can all bolts be tightened to well box?	X		1 bolt can
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26 Well ID: MW-13A
Project No: _____ Technician(s): S. Estes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 9.86 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 24.35 below TOC
Installation Total Depth (from log): 24'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?		X	
Can all bolts be tightened to well box?		X	
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26 **Well ID:** MW-13B
Project No: **Technician(s):** Sykes **Picture No:**

Can you locate the well? ☒ Yes ☐ No
If no, is the well (possibly): Buried / Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? ☐ Yes ☒ No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 10.24 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 71.93 below TOC
Installation Total Depth (from log): 72'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-13C
Project No: _____ Technician(s): SpikES Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried / Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground (Flush-to-ground)
Type of Well: (circle)
(Monitoring) Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 10.46 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 68.12 below TOC
Installation Total Depth (from log): 68'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / (Lockable exp. cap)
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box (slightly elevated), flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-14A
Project No: Technician(s): Spikes Picture No:

Can you locate the well? (X) Yes ( ) No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other:
Is well clearly identified? ( ) Yes (X) No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other:
Depth To Product: — below TOC
Depth To GW/SWL: 26.47 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 35.84 below TOC
Installation Total Depth (from log): 35.00

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?	X		
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.		X	

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X	X	1 bolt
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations: Plate won't lay flush. Pad cracked. One bolt cracked in threads.

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman **Date:** 06/26/17 **Well ID:** MW-15A
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? ☒ Yes ☐ No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? ☐ Yes ☒ No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 20.37 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 37.59 below TOC
Installation Total Depth (from log): 37.50

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-5B
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 20.46 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 47.75 below TOC
Installation Total Depth (from log): 48.50

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-5C
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? (X) Yes ( ) No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel (X) Other: _____
Is well clearly identified? ( ) Yes (X) No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 28.41 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 69.71 below TOC
Installation Total Depth (from log): 69.5'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—		—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)	X		
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X	X	
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover-rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?			
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support
consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Afterman Date: 06/26/17 Well ID: MW-16A
Project No: _____ Technician(s): Sykes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 12.28 below TOC

Well Diameter: _____ inches millimeters
Current Total Depth: 32.57 below TOC
Installation Total Depth (from log): 32.00

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover ring present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)	X		
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	X		
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Afterman **Date:** 06/26/17 **Well ID:** MW-16B
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried / Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 12.33 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 43.43 below TOC
Installation Total Depth (from log): 44'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X	[redacted]	
Is the rubber gasket present and in good condition?	[redacted]	X	
Is the annular seal in good condition?	X	[redacted]	
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?	[redacted]	X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-16C
Project No: Technician(s): Spikes Picture No:

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other:
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other:
Depth To Product: — below TOC
Depth To GW/SWL: 14.19 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 67.93 below TOC
Installation Total Depth (from log): 68.00

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support
consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman Date: 06/26/17 Well ID: MW-18A
Project No: _____ Technician(s): Spikes Picture No: _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried / Destroyed / Abandoned
Can well be located by: GPS / Metal Detector / Shovel / Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground / Flush-to-ground
Type of Well: (circle)
Monitoring / Piezometer / SVE/DPE / Extraction
Injection / COD / Water Supply

Well Riser Material: (PVC) / Steel / Stainless Steel / Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 17.65 below TOC

Well Diameter: 2" inches / millimeters
Current Total Depth: ~~29.9~~ below TOC 30.11
Installation Total Depth (from log): 30'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-18B
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? ☒ Yes ☐ No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? ☐ Yes ☒ No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 17.79 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 56.56 below TOC
Installation Total Depth (from log): 57.00

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-19A
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 13.62 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 34.21 below TOC
Installation Total Depth (from log): 34.00

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	[redacted] X	[redacted]	
Can all bolts be tightened to well box?	[redacted] X	[redacted]	
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-19B
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 14.11 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 60.11 below TOC
Installation Total Depth (from log): 60

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	--	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	[redacted]	X	
Can all bolts be tightened to well box?	[redacted]	X	
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

Wrong size lid, no bolts

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-19C
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 14.28 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 84.71 below TOC
Installation Total Depth (from log): 85'

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-19D
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: (PVC) Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 15.26 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 105.52 below TOC
Installation Total Depth (from log): 105.5

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?		X	
Can all bolts be tightened to well box?		X	
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:
Wrong size lid, no bolts

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-20C
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground **Flush-to-ground**
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: **PVC** Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 18.89 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 44.93 below TOC
Installation Total Depth (from log): 45

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?			
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover present, present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?		X	One missing
Can all bolts be tightened to well box?	X	X	one bolt
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Atterman **Date:** 06/26 **Well ID:** MW-21B
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 13.53 below TOC

Well Diameter: 2 11 inches millimeters
Current Total Depth: 14.77 below TOC
Installation Total Depth (from log): 15

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	-	-	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (If so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		
Observations:			

EHS Support — consider it done

SINGLE WELL INSPECTION FORM

Project Name: Ashland Alterman **Date:** 06/26/17 **Well ID:** MW-21C
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 14.30 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 14.77 below TOC
Installation Total Depth (from log): 15

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	—	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support *consider it done*

SINGLE WELL INSPECTION FORM

Project Name: Ashland Afterman **Date:** 06/26/17 **Well ID:** MW-24C
Project No: _____ **Technician(s):** Spikes **Picture No:** _____

Can you locate the well? [X] Yes [ ] No
If no, is the well (possibly): Buried / Destroyed Abandoned
Can well be located by: GPS Metal Detector Shovel Other: _____
Is well clearly identified? [ ] Yes [X] No

Completion (circle): Above-ground Flush-to-ground
Type of Well: (circle)
Monitoring Piezometer SVE/DPE Extraction
Injection COD Water Supply

Well Riser Material: PVC Steel Stainless Steel Other: _____
Depth To Product: — below TOC
Depth To GW/SWL: 35.76 below TOC

Well Diameter: 2" inches millimeters
Current Total Depth: 43.52 below TOC
Installation Total Depth (from log): 43.50

Wellhead and Casing Information	YES	NO	Comments / Needed Repairs
Is top of well above known flood or surface water level?	X		
Does the well have a concrete well pad?	X		
Dimensions of the pad:	—	—	—
Presence of cracks, voids, or defects in the pad?		X	
Is the pad on stable ground? (i.e., no adjacent erosion)	X		
Has the pad sunk into or been pushed from near ground surface?		X	
Does the well have a dedicated well head pump (for extraction)?		X	
Does the well casing allow for a cap seal?	X		
Does the protective casing or well box have an external ID tab or label?		X	
Does the well have a slip cap or a lockable expansion cap? (circle one)	--	—	Slip cap / Lockable exp. cap
Does the well casing indicate only one visible reference measuring point?	X		
Does the expandible cap have a port hole? (a hole through the cap)			
Does the well have equipment installed (drop tube, pump, etc.)? (specify)		X	
Does the well casing or well box need to be extended to install sampling port plug?		X	
Can the water level be measured?	X		
Does well casing appear to be in good shape? If not, explain.	X		

Above-ground Wells	YES	NO	Comments / Needed Repairs
Is the stick-up of the well and protective casing an appropriate height? (At least 18 inches above ground level)			
Is the above-ground well cover a protective casing or stove pipe? What type of material?			
Does the protective cover have an operational lock between the lid and cover?			
Does the protective casing have a lid?			
Are the lid hinges in good condition?			
Is there fill (e.g., gravel, sand, concrete) between the protective casing and the well?			
Does the above-ground protective cover appear rusted out, damaged, or bent?			
Are there steel bumper guards around the protective casing? If so, how many?			
Are steel bumper guards highly visible (yellow/orange paint with reflective markings)?			
Any evidence of impact to the steel bumper guards?			

Flush-to-ground Wells	YES	NO	Comments / Needed Repairs
Is the well box slightly elevated, flush, or below ground surface?			
Is the well box cover rim present or in good condition?	X		
What is the diameter of the well box?	—	—	—
Are the well box bolts present?	X		
Can all bolts be tightened to well box?	X		
Is the rubber gasket present and in good condition?		X	
Is the annular seal in good condition?	X		
Does the well box contain water? (if so, note whether level is at TOC, suggesting leaking into well)		X	
Does the well box contain sediments (e.g., dirt, twigs) that would have entered from the surface?		X	
Does the expandable cap prevent surface water from entering the well?	X		
Does the lid have an operational lock?	X		
Does the well box have a pressure relief or venting device?	X		

Observations:

EHS Support

LOW FLOW GROUNDWATER SAMPLING FORM

Project Name: Ashland Alterman
Project Number:
Time (Initial): ~~0947~~ 1000
Initial Water Level: 12.25 ft
Total Well Depth: 32.57 ft
Water Column Height: 12.38 ft

Well Identification: MW-16A
Sample Date: 06/27/17
Field Technician(s): Spikes, Smith
Inner Casing Diameter (in): 2"
Pump and Tubing Type: QED Micropurge, Teflon
Depth to Pump Intake: 27' from TOC ft

Time	Flow Rate	Water Level	Temp.	pH	Conductivity	Turbidity	DO	ORP	Odor	Color	Comments, Volume removed
	mL/min	ft	°C / °F	S.U.	mS/cm	NTU	mg/L	mV			
1007	100	—	30.19	7.0	0.182	24	3.30	140.9	None	Clear	
1013	100	12.38	25.70	5.72	0.120	50.1	2.42	157.8	↓	↓	
1015	100	12.38	25.45	5.75	0.118	50.9	2.17	152.2			
1018	100	12.38	25.24	5.83	0.114	49.3	2.09	145.0			
1020	100	12.38	25.18	5.86	0.114	49.9	1.90	141.3			
1022	100	12.38	25.18	5.89	0.113	44.7	1.99	137.8			

Note: Contact EHS Support Project Manager for guidance if well does not stabilize within 60 minutes of purging.

Comments:

Start Purge Time: 1000
End Purge Time: 1027
Final Water Level: 12.38 ft
Total Volume Purged: 0.5 gal

Well Purged Dry? ☐ Yes ☒ No

SAMPLE ID	TIME	ANALYSIS	NOTES
MW-16A-LF	1025	VOCs - 8260	

Formula for Calculating Well Casing Volume

$$[A] = \frac{\pi D^2 L}{4} * 7.48 \frac{gal}{ft^3}$$

D = Well casing inner diameter *(converted to feet)*
L = Height of water column (ft)

Parameter	Stabilization Criteria Quick Reference*
Temperature	± 3% of reading (minimum of ± 0.2 C)
pH	+/- 0.1
Specific Conductance	+/- 3%
ORP	+/- 10 millivolts
Dissolved Oxygen	+/- 0.3 milligrams per liter
Turbidity	Not a stabilization criteria; however, prefer turbidity under 100 NTUs

* USEPA, 1996 (Puls and Barcelona) Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. For reference only - please refer to the Performance Monitoring Plan requirements.

Signature:

EHS Support

LOW FLOW GROUNDWATER SAMPLING FORM

Project Name: Ashland Atterman
Project Number: _____
Time (Initial): 1045
Initial Water Level: 12.31 ft
Total Well Depth: 43.43 ft
Water Column Height: _____ ft

Well Identification: MW-16B
Sample Date: 06/27/17
Field Technician(s): Spikes, Smith
Inner Casing Diameter (in): 2"
Pump and Tubing Type: QED
Depth to Pump Intake: 39' below TOC ft

Time	Flow Rate	Water Level	Temp.	pH	Conductivity	Turbidity	DO	ORP	Odor	Color	Comments, Volume removed
	mL/min	ft	°C / °F	S.U.	mS/cm	NTU	mg/L	mV			
1106	100	12.38	27.32	6.18	0.167	19.7	3.99	76.2	None	Clear	
1109	100	12.38	27.36	6.18	0.159	36.2	3.41	78.7	↓	↓	
1112	100	12.38	27.27	6.16	0.158	36.1	3.33	76.9			
1117	100	12.38	27.28	6.15	0.157	29.0	3.20	74.6			

Note: Contact EHS Support Project Manager for guidance if well does not stabilize within 60 minutes of purging.

Comments: _____

Start Purge Time: 1045
End Purge Time: ~~to~~ 1130
Final Water Level: 12.38 ft
Total Volume Purged: 0.5 gal

Well Purged Dry? ☐ Yes ☒ No

SAMPLE ID	TIME	ANALYSIS	NOTES
MW-16B-LF	1120	VOCs - 8260	

Formula for Calculating Well Casing Volume

$$[A] = \frac{\pi D^2 L}{4} * 7.48 \frac{gal}{ft^3}$$

D = Well casing inner diameter *(converted to feet)*
L = Height of water column (ft)

Parameter	Stabilization Criteria Quick Reference*
Temperature	± 3% of reading (minimum of ± 0.2 C)
pH	+/- 0.1
Specific Conductance	+/- 3%
ORP	+/- 10 millivolts
Dissolved Oxygen	+/- 0.3 milligrams per liter
Turbidity	Not a stabilization criteria; however, prefer turbidity under 100 NTUs

* - USEPA, 1996 (Puls and Barcelona) Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. For reference only - please refer to the Performance Monitoring Plan requirements.

Signature: K Spikes

APPENDIX B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-146532-1
Client Project/Site: Ashland Alterman (Jonesboro)

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Authorized for release by:
12/19/2017 3:04:58 PM
Sheila Hoffman, Project Manager II
(912)354-7858 e.3004
sheila.hoffman@testamericainc.com

Designee for

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

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Job ID: 680-146532-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 680-146532-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 12/08/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-16C (680-146532-1), MW-19B (680-146532-2), MW-19C (680-146532-3), MW-19D (680-146532-4), MW-20C (680-146532-5), SS-1 (680-146532-6), SS-2 (680-146532-7), SS-3 (680-146532-8), Dup-1 (680-146532-9), Trip Blank (680-146532-10) and OF-2 (680-146532-11) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/12/2017 and 12/14/2017.

Samples MW-16C (680-146532-1)[10X], MW-16C (680-146532-1)[5X], MW-19C (680-146532-3)[5X], MW-19D (680-146532-4)[5X] and MW-20C (680-146532-5)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-146532-1	MW-16C	Water	12/05/17 15:20	12/08/17 07:25
680-146532-2	MW-19B	Water	12/05/17 13:30	12/08/17 07:25
680-146532-3	MW-19C	Water	12/05/17 13:15	12/08/17 07:25
680-146532-4	MW-19D	Water	12/05/17 14:10	12/08/17 07:25
680-146532-5	MW-20C	Water	12/05/17 15:35	12/08/17 07:25
680-146532-6	SS-1	Water	12/05/17 16:40	12/08/17 07:25
680-146532-7	SS-2	Water	12/07/17 08:45	12/08/17 07:25
680-146532-8	SS-3	Water	12/05/17 16:15	12/08/17 07:25
680-146532-9	Dup-1	Water	12/05/17 13:35	12/08/17 07:25
680-146532-10	Trip Blank	Water	12/05/17 00:00	12/08/17 07:25
680-146532-11	OF-2	Water	12/05/17 16:35	12/08/17 07:25

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Client Sample ID: MW-16C — Lab Sample ID: 680-146532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	200		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	100		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	780		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-19B — Lab Sample ID: 680-146532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	39		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	130		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	17		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19C — Lab Sample ID: 680-146532-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16		10		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	70		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	39		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	380		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-19D — Lab Sample ID: 680-146532-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	61		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	28		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	290		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-20C — Lab Sample ID: 680-146532-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	23		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	170		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: SS-1 — Lab Sample ID: 680-146532-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.7		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.2		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	51		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	4.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-2 — Lab Sample ID: 680-146532-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	67		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.8		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-3 — Lab Sample ID: 680-146532-8

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Client Sample ID: SS-3 (Continued) — Lab Sample ID: 680-146532-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	36		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Dup-1 — Lab Sample ID: 680-146532-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	37		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	120		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	15		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-146532-10

No Detections.

Client Sample ID: OF-2 — Lab Sample ID: 680-146532-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.4		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	60		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	9.0		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16C

Date Collected: 12/05/17 15:20
Date Received: 12/08/17 07:25

Lab Sample ID: 680-146532-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/L			12/12/17 13:35	5
Benzene	<5.0		5.0		ug/L			12/12/17 13:35	5
Bromoform	<5.0		5.0		ug/L			12/12/17 13:35	5
Bromomethane	<25		25		ug/L			12/12/17 13:35	5
2-Butanone (MEK)	<50		50		ug/L			12/12/17 13:35	5
Carbon disulfide	<10		10		ug/L			12/12/17 13:35	5
Carbon tetrachloride	<5.0		5.0		ug/L			12/12/17 13:35	5
Chlorobenzene	<5.0		5.0		ug/L			12/12/17 13:35	5
Chlorodibromomethane	<5.0		5.0		ug/L			12/12/17 13:35	5
Chloroethane	<25		25		ug/L			12/12/17 13:35	5
Chloroform	<5.0		5.0		ug/L			12/12/17 13:35	5
Chloromethane	<5.0		5.0		ug/L			12/12/17 13:35	5
cis-1,2-Dichloroethene	**200**		5.0		ug/L			12/12/17 13:35	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/12/17 13:35	5
Dichlorobromomethane	<5.0		5.0		ug/L			12/12/17 13:35	5
1,1-Dichloroethane	<5.0		5.0		ug/L			12/12/17 13:35	5
1,2-Dichloroethane	<5.0		5.0		ug/L			12/12/17 13:35	5
1,1-Dichloroethene	<5.0		5.0		ug/L			12/12/17 13:35	5
1,2-Dichloropropane	<5.0		5.0		ug/L			12/12/17 13:35	5
Ethylbenzene	<5.0		5.0		ug/L			12/12/17 13:35	5
2-Hexanone	<50		50		ug/L			12/12/17 13:35	5
Methylene Chloride	<25		25		ug/L			12/12/17 13:35	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			12/12/17 13:35	5
Styrene	<5.0		5.0		ug/L			12/12/17 13:35	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			12/12/17 13:35	5
Toluene	<5.0		5.0		ug/L			12/12/17 13:35	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			12/12/17 13:35	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/12/17 13:35	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			12/12/17 13:35	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/12/17 13:35	5
Trichloroethene	**100**		5.0		ug/L			12/12/17 13:35	5
Vinyl chloride	<5.0		5.0		ug/L			12/12/17 13:35	5
Xylenes, Total	<5.0		5.0		ug/L			12/12/17 13:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/12/17 13:35*	*5*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*12/12/17 13:35*	*5*
Dibromofluoromethane (Surr)	*116*		*80 - 122*		*12/12/17 13:35*	*5*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/12/17 13:35*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**780**		10		ug/L			12/14/17 15:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/14/17 15:50*	*10*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*12/14/17 15:50*	*10*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*12/14/17 15:50*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/14/17 15:50*	*10*

Client Sample ID: MW-19B

Lab Sample ID: 680-146532-2

Date Collected: 12/05/17 13:30

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 13:57	1
Benzene	<1.0		1.0		ug/L			12/12/17 13:57	1
Bromoform	<1.0		1.0		ug/L			12/12/17 13:57	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 13:57	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 13:57	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 13:57	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 13:57	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 13:57	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 13:57	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 13:57	1
Chloroform	<1.0		1.0		ug/L			12/12/17 13:57	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 13:57	1
cis-1,2-Dichloroethene	**39**		1.0		ug/L			12/12/17 13:57	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 13:57	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 13:57	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 13:57	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 13:57	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 13:57	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 13:57	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 13:57	1
2-Hexanone	<10		10		ug/L			12/12/17 13:57	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 13:57	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 13:57	1
Styrene	<1.0		1.0		ug/L			12/12/17 13:57	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 13:57	1
Tetrachloroethene	**130**		1.0		ug/L			12/12/17 13:57	1
Toluene	<1.0		1.0		ug/L			12/12/17 13:57	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 13:57	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 13:57	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 13:57	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 13:57	1
Trichloroethene	**17**		1.0		ug/L			12/12/17 13:57	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 13:57	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/12/17 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*12/12/17 13:57*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*12/12/17 13:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/12/17 13:57*	*1*

Client Sample ID: MW-19C

Lab Sample ID: 680-146532-3

Date Collected: 12/05/17 13:15

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**16**		10		ug/L			12/12/17 14:19	1
Benzene	<1.0		1.0		ug/L			12/12/17 14:19	1
Bromoform	<1.0		1.0		ug/L			12/12/17 14:19	1

Client Sample ID: MW-19C
Date Collected: 12/05/17 13:15
Date Received: 12/08/17 07:25

Lab Sample ID: 680-146532-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0		ug/L			12/12/17 14:19	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 14:19	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 14:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 14:19	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 14:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 14:19	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 14:19	1
Chloroform	<1.0		1.0		ug/L			12/12/17 14:19	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 14:19	1
cis-1,2-Dichloroethene	**70**		1.0		ug/L			12/12/17 14:19	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 14:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 14:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 14:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 14:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 14:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 14:19	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 14:19	1
2-Hexanone	<10		10		ug/L			12/12/17 14:19	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 14:19	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 14:19	1
Styrene	<1.0		1.0		ug/L			12/12/17 14:19	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 14:19	1
Toluene	<1.0		1.0		ug/L			12/12/17 14:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 14:19	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 14:19	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 14:19	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 14:19	1
Trichloroethene	**39**		1.0		ug/L			12/12/17 14:19	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 14:19	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/12/17 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*12/12/17 14:19*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*12/12/17 14:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/12/17 14:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**380**		5.0		ug/L			12/14/17 16:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/14/17 16:14*	*5*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*12/14/17 16:14*	*5*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*12/14/17 16:14*	*5*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/14/17 16:14*	*5*

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Client Sample ID: MW-19D
Date Collected: 12/05/17 14:10
Date Received: 12/08/17 07:25

Lab Sample ID: 680-146532-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 14:41	1
Benzene	<1.0		1.0		ug/L			12/12/17 14:41	1
Bromoform	<1.0		1.0		ug/L			12/12/17 14:41	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 14:41	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 14:41	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 14:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 14:41	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 14:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 14:41	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 14:41	1
Chloroform	<1.0		1.0		ug/L			12/12/17 14:41	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 14:41	1
cis-1,2-Dichloroethene	**61**		1.0		ug/L			12/12/17 14:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 14:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 14:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 14:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 14:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 14:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 14:41	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 14:41	1
2-Hexanone	<10		10		ug/L			12/12/17 14:41	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 14:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 14:41	1
Styrene	<1.0		1.0		ug/L			12/12/17 14:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 14:41	1
Toluene	<1.0		1.0		ug/L			12/12/17 14:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 14:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 14:41	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 14:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 14:41	1
Trichloroethene	**28**		1.0		ug/L			12/12/17 14:41	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 14:41	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/12/17 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*12/12/17 14:41*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*12/12/17 14:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/12/17 14:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**290**		5.0		ug/L			12/14/17 16:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/14/17 16:39*	*5*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*		*12/14/17 16:39*	*5*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*12/14/17 16:39*	*5*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/14/17 16:39*	*5*

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Client Sample ID: MW-20C
Date Collected: 12/05/17 15:35
Date Received: 12/08/17 07:25

Lab Sample ID: 680-146532-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 15:03	1
Benzene	<1.0		1.0		ug/L			12/12/17 15:03	1
Bromoform	<1.0		1.0		ug/L			12/12/17 15:03	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 15:03	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 15:03	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 15:03	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 15:03	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 15:03	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 15:03	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 15:03	1
Chloroform	<1.0		1.0		ug/L			12/12/17 15:03	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 15:03	1
cis-1,2-Dichloroethene	**26**		1.0		ug/L			12/12/17 15:03	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 15:03	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 15:03	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 15:03	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 15:03	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 15:03	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 15:03	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 15:03	1
2-Hexanone	<10		10		ug/L			12/12/17 15:03	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 15:03	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 15:03	1
Styrene	<1.0		1.0		ug/L			12/12/17 15:03	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 15:03	1
Toluene	<1.0		1.0		ug/L			12/12/17 15:03	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 15:03	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 15:03	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 15:03	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 15:03	1
Trichloroethene	**23**		1.0		ug/L			12/12/17 15:03	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 15:03	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/12/17 15:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*12/12/17 15:03*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*12/12/17 15:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/12/17 15:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**170**		2.0		ug/L			12/14/17 17:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/14/17 17:03*	*2*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*12/14/17 17:03*	*2*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*12/14/17 17:03*	*2*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/14/17 17:03*	*2*

Client Sample ID: SS-1

Lab Sample ID: 680-146532-6

Date Collected: 12/05/17 16:40

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 15:25	1
Benzene	<1.0		1.0		ug/L			12/12/17 15:25	1
Bromoform	<1.0		1.0		ug/L			12/12/17 15:25	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 15:25	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 15:25	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 15:25	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 15:25	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 15:25	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 15:25	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 15:25	1
Chloroform	<1.0		1.0		ug/L			12/12/17 15:25	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 15:25	1
cis-1,2-Dichloroethene	**4.7**		1.0		ug/L			12/12/17 15:25	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 15:25	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 15:25	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 15:25	1
1,2-Dichloroethane	**2.2**		1.0		ug/L			12/12/17 15:25	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 15:25	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 15:25	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 15:25	1
2-Hexanone	<10		10		ug/L			12/12/17 15:25	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 15:25	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 15:25	1
Styrene	<1.0		1.0		ug/L			12/12/17 15:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 15:25	1
Tetrachloroethene	**51**		1.0		ug/L			12/12/17 15:25	1
Toluene	<1.0		1.0		ug/L			12/12/17 15:25	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 15:25	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 15:25	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 15:25	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 15:25	1
Trichloroethene	**4.4**		1.0		ug/L			12/12/17 15:25	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 15:25	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/12/17 15:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*12/12/17 15:25*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*12/12/17 15:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/12/17 15:25*	*1*

Client Sample ID: SS-2

Lab Sample ID: 680-146532-7

Date Collected: 12/07/17 08:45

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 15:47	1
Benzene	<1.0		1.0		ug/L			12/12/17 15:47	1
Bromoform	<1.0		1.0		ug/L			12/12/17 15:47	1

Client Sample ID: SS-2

Lab Sample ID: 680-146532-7

Date Collected: 12/07/17 08:45

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0		ug/L			12/12/17 15:47	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 15:47	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 15:47	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 15:47	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 15:47	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 15:47	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 15:47	1
Chloroform	<1.0		1.0		ug/L			12/12/17 15:47	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 15:47	1
cis-1,2-Dichloroethene	**3.5**		1.0		ug/L			12/12/17 15:47	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 15:47	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 15:47	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 15:47	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 15:47	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 15:47	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 15:47	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 15:47	1
2-Hexanone	<10		10		ug/L			12/12/17 15:47	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 15:47	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 15:47	1
Styrene	<1.0		1.0		ug/L			12/12/17 15:47	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 15:47	1
Tetrachloroethene	**67**		1.0		ug/L			12/12/17 15:47	1
Toluene	<1.0		1.0		ug/L			12/12/17 15:47	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 15:47	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 15:47	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 15:47	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 15:47	1
Trichloroethene	**3.8**		1.0		ug/L			12/12/17 15:47	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 15:47	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/12/17 15:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*12/12/17 15:47*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*12/12/17 15:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/12/17 15:47*	*1*

Client Sample ID: SS-3

Lab Sample ID: 680-146532-8

Date Collected: 12/05/17 16:15

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 16:10	1
Benzene	<1.0		1.0		ug/L			12/12/17 16:10	1
Bromoform	<1.0		1.0		ug/L			12/12/17 16:10	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 16:10	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 16:10	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 16:10	1

Client Sample ID: SS-3

Lab Sample ID: 680-146532-8

Date Collected: 12/05/17 16:15

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 16:10	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 16:10	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 16:10	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 16:10	1
Chloroform	<1.0		1.0		ug/L			12/12/17 16:10	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 16:10	1
cis-1,2-Dichloroethene	**2.7**		1.0		ug/L			12/12/17 16:10	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 16:10	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 16:10	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 16:10	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 16:10	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 16:10	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 16:10	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 16:10	1
2-Hexanone	<10		10		ug/L			12/12/17 16:10	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 16:10	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 16:10	1
Styrene	<1.0		1.0		ug/L			12/12/17 16:10	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 16:10	1
Tetrachloroethene	**36**		1.0		ug/L			12/12/17 16:10	1
Toluene	<1.0		1.0		ug/L			12/12/17 16:10	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 16:10	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 16:10	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 16:10	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 16:10	1
Trichloroethene	**2.7**		1.0		ug/L			12/12/17 16:10	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 16:10	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/12/17 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*12/12/17 16:10*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*12/12/17 16:10*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/12/17 16:10*	*1*

Client Sample ID: Dup-1

Lab Sample ID: 680-146532-9

Date Collected: 12/05/17 13:35

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 16:32	1
Benzene	<1.0		1.0		ug/L			12/12/17 16:32	1
Bromoform	<1.0		1.0		ug/L			12/12/17 16:32	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 16:32	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 16:32	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 16:32	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 16:32	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 16:32	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 16:32	1

Client Sample ID: Dup-1

Lab Sample ID: 680-146532-9

Date Collected: 12/05/17 13:35

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			12/12/17 16:32	1
Chloroform	<1.0		1.0		ug/L			12/12/17 16:32	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 16:32	1
cis-1,2-Dichloroethene	**37**		1.0		ug/L			12/12/17 16:32	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 16:32	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 16:32	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 16:32	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 16:32	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 16:32	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 16:32	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 16:32	1
2-Hexanone	<10		10		ug/L			12/12/17 16:32	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 16:32	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 16:32	1
Styrene	<1.0		1.0		ug/L			12/12/17 16:32	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 16:32	1
Tetrachloroethene	**120**		1.0		ug/L			12/12/17 16:32	1
Toluene	<1.0		1.0		ug/L			12/12/17 16:32	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 16:32	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 16:32	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 16:32	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 16:32	1
Trichloroethene	**15**		1.0		ug/L			12/12/17 16:32	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 16:32	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/12/17 16:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*12/12/17 16:32*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*12/12/17 16:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/12/17 16:32*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-146532-10

Date Collected: 12/05/17 00:00

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 12:28	1
Benzene	<1.0		1.0		ug/L			12/12/17 12:28	1
Bromoform	<1.0		1.0		ug/L			12/12/17 12:28	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 12:28	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 12:28	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 12:28	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 12:28	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 12:28	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 12:28	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 12:28	1
Chloroform	<1.0		1.0		ug/L			12/12/17 12:28	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 12:28	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-146532-10

Date Collected: 12/05/17 00:00

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 12:28	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 12:28	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 12:28	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 12:28	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 12:28	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 12:28	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 12:28	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 12:28	1
2-Hexanone	<10		10		ug/L			12/12/17 12:28	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 12:28	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 12:28	1
Styrene	<1.0		1.0		ug/L			12/12/17 12:28	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 12:28	1
Tetrachloroethene	<1.0		1.0		ug/L			12/12/17 12:28	1
Toluene	<1.0		1.0		ug/L			12/12/17 12:28	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 12:28	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 12:28	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 12:28	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 12:28	1
Trichloroethene	<1.0		1.0		ug/L			12/12/17 12:28	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 12:28	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/12/17 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*12/12/17 12:28*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*12/12/17 12:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*12/12/17 12:28*	*1*

Client Sample ID: OF-2

Lab Sample ID: 680-146532-11

Date Collected: 12/05/17 16:35

Matrix: Water

Date Received: 12/08/17 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 16:54	1
Benzene	<1.0		1.0		ug/L			12/12/17 16:54	1
Bromoform	<1.0		1.0		ug/L			12/12/17 16:54	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 16:54	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 16:54	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 16:54	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 16:54	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 16:54	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 16:54	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 16:54	1
Chloroform	<1.0		1.0		ug/L			12/12/17 16:54	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 16:54	1
cis-1,2-Dichloroethene	**7.4**		1.0		ug/L			12/12/17 16:54	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 16:54	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 16:54	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Client Sample ID: OF-2
Date Collected: 12/05/17 16:35
Date Received: 12/08/17 07:25

Lab Sample ID: 680-146532-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 16:54	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 16:54	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 16:54	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 16:54	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 16:54	1
2-Hexanone	<10		10		ug/L			12/12/17 16:54	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 16:54	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 16:54	1
Styrene	<1.0		1.0		ug/L			12/12/17 16:54	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 16:54	1
Tetrachloroethene	**60**		1.0		ug/L			12/12/17 16:54	1
Toluene	<1.0		1.0		ug/L			12/12/17 16:54	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 16:54	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 16:54	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 16:54	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 16:54	1
Trichloroethene	**9.0**		1.0		ug/L			12/12/17 16:54	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 16:54	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/12/17 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*12/12/17 16:54*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*12/12/17 16:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/12/17 16:54*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(80-120)	(73-131)	(80-122)	(80-120)
680-146532-1	MW-16C	102	108	116	98
680-146532-1 - DL	MW-16C	95	90	97	99
680-146532-2	MW-19B	99	93	106	99
680-146532-3	MW-19C	98	92	101	97
680-146532-3 - DL	MW-19C	93	95	99	98
680-146532-4	MW-19D	98	90	103	99
680-146532-4 - DL	MW-19D	98	91	96	101
680-146532-5	MW-20C	100	92	104	101
680-146532-5 - DL	MW-20C	96	97	100	99
680-146532-6	SS-1	101	97	108	99
680-146532-7	SS-2	100	93	106	101
680-146532-8	SS-3	100	98	105	98
680-146532-9	Dup-1	98	95	105	98
680-146532-10	Trip Blank	102	96	108	102
680-146532-11	OF-2	101	96	108	100
LCS 680-506013/4	Lab Control Sample	101	100	101	99
LCS 680-506396/4	Lab Control Sample	94	84	92	99
LCSD 680-506013/5	Lab Control Sample Dup	100	98	101	102
LCSD 680-506396/5	Lab Control Sample Dup	97	88	95	101
MB 680-506013/9	Method Blank	103	98	109	100
MB 680-506396/9	Method Blank	100	83	90	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 680-506013/9
Matrix: Water
Analysis Batch: 506013

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/12/17 12:00	1
Benzene	<1.0		1.0		ug/L			12/12/17 12:00	1
Bromoform	<1.0		1.0		ug/L			12/12/17 12:00	1
Bromomethane	<5.0		5.0		ug/L			12/12/17 12:00	1
2-Butanone (MEK)	<10		10		ug/L			12/12/17 12:00	1
Carbon disulfide	<2.0		2.0		ug/L			12/12/17 12:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/12/17 12:00	1
Chlorobenzene	<1.0		1.0		ug/L			12/12/17 12:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/12/17 12:00	1
Chloroethane	<5.0		5.0		ug/L			12/12/17 12:00	1
Chloroform	<1.0		1.0		ug/L			12/12/17 12:00	1
Chloromethane	<1.0		1.0		ug/L			12/12/17 12:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 12:00	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 12:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/12/17 12:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/12/17 12:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/12/17 12:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/12/17 12:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/12/17 12:00	1
Ethylbenzene	<1.0		1.0		ug/L			12/12/17 12:00	1
2-Hexanone	<10		10		ug/L			12/12/17 12:00	1
Methylene Chloride	<5.0		5.0		ug/L			12/12/17 12:00	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/12/17 12:00	1
Styrene	<1.0		1.0		ug/L			12/12/17 12:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/12/17 12:00	1
Tetrachloroethene	<1.0		1.0		ug/L			12/12/17 12:00	1
Toluene	<1.0		1.0		ug/L			12/12/17 12:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/12/17 12:00	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/12/17 12:00	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/12/17 12:00	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/12/17 12:00	1
Trichloroethene	<1.0		1.0		ug/L			12/12/17 12:00	1
Vinyl chloride	<1.0		1.0		ug/L			12/12/17 12:00	1
Xylenes, Total	<1.0		1.0		ug/L			12/12/17 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/12/17 12:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*12/12/17 12:00*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 122*		*12/12/17 12:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/12/17 12:00*	*1*

Lab Sample ID: LCS 680-506013/4
Matrix: Water
Analysis Batch: 506013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	260		ug/L		104	68 - 132
Benzene	50.0	51.0		ug/L		102	80 - 120

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

Lab Sample ID: LCS 680-506013/4
Matrix: Water
Analysis Batch: 506013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	52.0		ug/L		104	52 - 122
Bromomethane	50.0	44.1		ug/L		88	43 - 146
2-Butanone (MEK)	250	266		ug/L		106	79 - 125
Carbon disulfide	50.0	46.7		ug/L		93	77 - 129
Carbon tetrachloride	50.0	53.3		ug/L		107	67 - 125
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120
Chlorodibromomethane	50.0	51.1		ug/L		102	68 - 120
Chloroethane	50.0	52.6		ug/L		105	48 - 145
Chloroform	50.0	50.5		ug/L		101	80 - 120
Chloromethane	50.0	46.9		ug/L		94	76 - 149
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 120
cis-1,3-Dichloropropene	50.0	55.5		ug/L		111	80 - 129
Dichlorobromomethane	50.0	52.9		ug/L		106	80 - 120
1,1-Dichloroethane	50.0	50.9		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	51.5		ug/L		103	72 - 128
1,1-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
1,2-Dichloropropane	50.0	52.1		ug/L		104	80 - 120
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120
2-Hexanone	250	243		ug/L		97	80 - 131
Methylene Chloride	50.0	53.1		ug/L		106	80 - 120
4-Methyl-2-pentanone (MIBK)	250	247		ug/L		99	80 - 134
Styrene	50.0	50.6		ug/L		101	80 - 126
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	76 - 126
Tetrachloroethene	50.0	51.0		ug/L		102	71 - 123
Toluene	50.0	51.9		ug/L		104	80 - 120
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	80 - 120
trans-1,3-Dichloropropene	50.0	55.7		ug/L		111	80 - 128
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	80 - 120
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	80 - 120
Trichloroethene	50.0	51.8		ug/L		104	80 - 120
Vinyl chloride	50.0	47.2		ug/L		94	80 - 129
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 680-506013/5
Matrix: Water
Analysis Batch: 506013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	259		ug/L		103	68 - 132	1	30
Benzene	50.0	50.5		ug/L		101	80 - 120	1	20
Bromoform	50.0	51.8		ug/L		104	52 - 122	0	20
Bromomethane	50.0	37.7		ug/L		75	43 - 146	16	20

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

Lab Sample ID: LCSD 680-506013/5
Matrix: Water
Analysis Batch: 506013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	250	279		ug/L		111	79 - 125	5	20
Carbon disulfide	50.0	49.1		ug/L		98	77 - 129	5	20
Carbon tetrachloride	50.0	51.4		ug/L		103	67 - 125	4	20
Chlorobenzene	50.0	49.8		ug/L		100	80 - 120	1	20
Chlorodibromomethane	50.0	51.5		ug/L		103	68 - 120	1	20
Chloroethane	50.0	50.9		ug/L		102	48 - 145	3	20
Chloroform	50.0	50.1		ug/L		100	80 - 120	1	20
Chloromethane	50.0	48.6		ug/L		97	76 - 149	4	30
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	80 - 129	1	20
Dichlorobromomethane	50.0	52.2		ug/L		104	80 - 120	1	20
1,1-Dichloroethane	50.0	49.8		ug/L		100	80 - 120	2	20
1,2-Dichloroethane	50.0	52.6		ug/L		105	72 - 128	2	50
1,1-Dichloroethene	50.0	48.8		ug/L		98	80 - 120	2	20
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	1	20
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	0	20
2-Hexanone	250	241		ug/L		96	80 - 131	1	20
Methylene Chloride	50.0	52.4		ug/L		105	80 - 120	1	20
4-Methyl-2-pentanone (MIBK)	250	247		ug/L		99	80 - 134	0	20
Styrene	50.0	49.9		ug/L		100	80 - 126	1	20
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	76 - 126	0	20
Tetrachloroethene	50.0	51.1		ug/L		102	71 - 123	0	20
Toluene	50.0	51.6		ug/L		103	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	80 - 128	1	30
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	2	20
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 120	1	20
Trichloroethene	50.0	51.1		ug/L		102	80 - 120	1	20
Vinyl chloride	50.0	45.9		ug/L		92	80 - 129	3	20
Xylenes, Total	100	101		ug/L		101	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-506396/9
Matrix: Water
Analysis Batch: 506396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/14/17 15:00	1
Benzene	<1.0		1.0		ug/L			12/14/17 15:00	1
Bromoform	<1.0		1.0		ug/L			12/14/17 15:00	1
Bromomethane	<5.0		5.0		ug/L			12/14/17 15:00	1
2-Butanone (MEK)	<10		10		ug/L			12/14/17 15:00	1
Carbon disulfide	<2.0		2.0		ug/L			12/14/17 15:00	1

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

Lab Sample ID: MB 680-506396/9
Matrix: Water
Analysis Batch: 506396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			12/14/17 15:00	1
Chlorobenzene	<1.0		1.0		ug/L			12/14/17 15:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/14/17 15:00	1
Chloroethane	<5.0		5.0		ug/L			12/14/17 15:00	1
Chloroform	<1.0		1.0		ug/L			12/14/17 15:00	1
Chloromethane	<1.0		1.0		ug/L			12/14/17 15:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/14/17 15:00	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/14/17 15:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/14/17 15:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/14/17 15:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/14/17 15:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/14/17 15:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/14/17 15:00	1
Ethylbenzene	<1.0		1.0		ug/L			12/14/17 15:00	1
2-Hexanone	<10		10		ug/L			12/14/17 15:00	1
Methylene Chloride	<5.0		5.0		ug/L			12/14/17 15:00	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/14/17 15:00	1
Styrene	<1.0		1.0		ug/L			12/14/17 15:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/14/17 15:00	1
Tetrachloroethene	<1.0		1.0		ug/L			12/14/17 15:00	1
Toluene	<1.0		1.0		ug/L			12/14/17 15:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/14/17 15:00	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/14/17 15:00	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/14/17 15:00	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/14/17 15:00	1
Trichloroethene	<1.0		1.0		ug/L			12/14/17 15:00	1
Vinyl chloride	<1.0		1.0		ug/L			12/14/17 15:00	1
Xylenes, Total	<1.0		1.0		ug/L			12/14/17 15:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/14/17 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*73 - 131*		*12/14/17 15:00*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 122*		*12/14/17 15:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/14/17 15:00*	*1*

Lab Sample ID: LCS 680-506396/4
Matrix: Water
Analysis Batch: 506396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	220		ug/L		88	68 - 132
Benzene	50.0	48.2		ug/L		96	80 - 120
Bromoform	50.0	43.4		ug/L		87	52 - 122
Bromomethane	50.0	46.4		ug/L		93	43 - 146
2-Butanone (MEK)	250	236		ug/L		94	79 - 125
Carbon disulfide	50.0	47.5		ug/L		95	77 - 129
Carbon tetrachloride	50.0	48.3		ug/L		97	67 - 125
Chlorobenzene	50.0	46.7		ug/L		93	80 - 120

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

Lab Sample ID: LCS 680-506396/4
Matrix: Water
Analysis Batch: 506396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	50.0	44.4		ug/L		89	68 - 120
Chloroethane	50.0	44.9		ug/L		90	48 - 145
Chloroform	50.0	46.5		ug/L		93	80 - 120
Chloromethane	50.0	44.4		ug/L		89	76 - 149
cis-1,2-Dichloroethene	50.0	46.6		ug/L		93	80 - 120
cis-1,3-Dichloropropene	50.0	47.6		ug/L		95	80 - 129
Dichlorobromomethane	50.0	44.6		ug/L		89	80 - 120
1,1-Dichloroethane	50.0	46.6		ug/L		93	80 - 120
1,2-Dichloroethane	50.0	45.0		ug/L		90	72 - 128
1,1-Dichloroethene	50.0	51.2		ug/L		102	80 - 120
1,2-Dichloropropane	50.0	47.1		ug/L		94	80 - 120
Ethylbenzene	50.0	48.1		ug/L		96	80 - 120
2-Hexanone	250	219		ug/L		87	80 - 131
Methylene Chloride	50.0	46.7		ug/L		93	80 - 120
4-Methyl-2-pentanone (MIBK)	250	220		ug/L		88	80 - 134
Styrene	50.0	47.7		ug/L		95	80 - 126
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	76 - 126
Tetrachloroethene	50.0	47.9		ug/L		96	71 - 123
Toluene	50.0	46.9		ug/L		94	80 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	80 - 120
trans-1,3-Dichloropropene	50.0	46.0		ug/L		92	80 - 128
1,1,1-Trichloroethane	50.0	47.0		ug/L		94	80 - 120
1,1,2-Trichloroethane	50.0	46.0		ug/L		92	80 - 120
Trichloroethene	50.0	45.8		ug/L		92	80 - 120
Vinyl chloride	50.0	49.0		ug/L		98	80 - 129
Xylenes, Total	100	96.8		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*84*		*73 - 131*
Dibromofluoromethane (Surr)	*92*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 680-506396/5
Matrix: Water
Analysis Batch: 506396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	232		ug/L		93	68 - 132	5	30
Benzene	50.0	48.8		ug/L		98	80 - 120	1	20
Bromoform	50.0	45.2		ug/L		90	52 - 122	4	20
Bromomethane	50.0	49.8		ug/L		100	43 - 146	7	20
2-Butanone (MEK)	250	237		ug/L		95	79 - 125	0	20
Carbon disulfide	50.0	49.4		ug/L		99	77 - 129	4	20
Carbon tetrachloride	50.0	49.5		ug/L		99	67 - 125	2	20
Chlorobenzene	50.0	48.8		ug/L		98	80 - 120	4	20
Chlorodibromomethane	50.0	45.9		ug/L		92	68 - 120	3	20
Chloroethane	50.0	47.3		ug/L		95	48 - 145	5	20

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

Lab Sample ID: LCSD 680-506396/5
Matrix: Water
Analysis Batch: 506396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			50.0	47.8		ug/L		96	80 - 120	3	20
Chloromethane			50.0	49.3		ug/L		99	76 - 149	11	30
cis-1,2-Dichloroethene			50.0	48.6		ug/L		97	80 - 120	4	20
cis-1,3-Dichloropropene			50.0	50.1		ug/L		100	80 - 129	5	20
Dichlorobromomethane			50.0	46.7		ug/L		93	80 - 120	5	20
1,1-Dichloroethane			50.0	48.7		ug/L		97	80 - 120	5	20
1,2-Dichloroethane			50.0	45.9		ug/L		92	72 - 128	2	50
1,1-Dichloroethene			50.0	53.5		ug/L		107	80 - 120	5	20
1,2-Dichloropropane			50.0	49.1		ug/L		98	80 - 120	4	20
Ethylbenzene			50.0	50.2		ug/L		100	80 - 120	4	20
2-Hexanone			250	229		ug/L		91	80 - 131	4	20
Methylene Chloride			50.0	48.3		ug/L		97	80 - 120	3	20
4-Methyl-2-pentanone (MIBK)			250	229		ug/L		92	80 - 134	4	20
Styrene			50.0	49.3		ug/L		99	80 - 126	3	20
1,1,2,2-Tetrachloroethane			50.0	49.7		ug/L		99	76 - 126	5	20
Tetrachloroethene			50.0	49.7		ug/L		99	71 - 123	4	20
Toluene			50.0	49.1		ug/L		98	80 - 120	5	20
trans-1,2-Dichloroethene			50.0	49.8		ug/L		100	80 - 120	4	20
trans-1,3-Dichloropropene			50.0	48.4		ug/L		97	80 - 128	5	30
1,1,1-Trichloroethane			50.0	49.0		ug/L		98	80 - 120	4	20
1,1,2-Trichloroethane			50.0	47.6		ug/L		95	80 - 120	3	20
Trichloroethene			50.0	47.6		ug/L		95	80 - 120	4	20
Vinyl chloride			50.0	51.5		ug/L		103	80 - 129	5	20
Xylenes, Total			100	100		ug/L		100	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*
Dibromofluoromethane (Surr)	*95*		*80 - 122*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

QC Association Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

GC/MS VOA

Analysis Batch: 506013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-146532-1	MW-16C	Total/NA	Water	8260B	
680-146532-2	MW-19B	Total/NA	Water	8260B	
680-146532-3	MW-19C	Total/NA	Water	8260B	
680-146532-4	MW-19D	Total/NA	Water	8260B	
680-146532-5	MW-20C	Total/NA	Water	8260B	
680-146532-6	SS-1	Total/NA	Water	8260B	
680-146532-7	SS-2	Total/NA	Water	8260B	
680-146532-8	SS-3	Total/NA	Water	8260B	
680-146532-9	Dup-1	Total/NA	Water	8260B	
680-146532-10	Trip Blank	Total/NA	Water	8260B	
680-146532-11	OF-2	Total/NA	Water	8260B	
MB 680-506013/9	Method Blank	Total/NA	Water	8260B	
LCS 680-506013/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-506013/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 506396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-146532-1 - DL	MW-16C	Total/NA	Water	8260B	
680-146532-3 - DL	MW-19C	Total/NA	Water	8260B	
680-146532-4 - DL	MW-19D	Total/NA	Water	8260B	
680-146532-5 - DL	MW-20C	Total/NA	Water	8260B	
MB 680-506396/9	Method Blank	Total/NA	Water	8260B	
LCS 680-506396/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-506396/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Client Sample ID: MW-16C

Lab Sample ID: 680-146532-1

Date Collected: 12/05/17 15:20

Matrix: Water

Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	506013	12/12/17 13:35	CMB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	506396	12/14/17 15:50	UI	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-19B

Lab Sample ID: 680-146532-2

Date Collected: 12/05/17 13:30

Matrix: Water

Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 13:57	CMB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-19C

Lab Sample ID: 680-146532-3

Date Collected: 12/05/17 13:15

Matrix: Water

Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 14:19	CMB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	506396	12/14/17 16:14	UI	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-19D

Lab Sample ID: 680-146532-4

Date Collected: 12/05/17 14:10

Matrix: Water

Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 14:41	CMB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	506396	12/14/17 16:39	UI	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-20C

Lab Sample ID: 680-146532-5

Date Collected: 12/05/17 15:35

Matrix: Water

Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 15:03	CMB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	506396	12/14/17 17:03	UI	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Client Sample ID: SS-1

Lab Sample ID: 680-146532-6

Date Collected: 12/05/17 16:40
Matrix: Water
Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 15:25	CMB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: SS-2

Lab Sample ID: 680-146532-7

Date Collected: 12/07/17 08:45
Matrix: Water
Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 15:47	CMB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: SS-3

Lab Sample ID: 680-146532-8

Date Collected: 12/05/17 16:15
Matrix: Water
Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 16:10	CMB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: Dup-1

Lab Sample ID: 680-146532-9

Date Collected: 12/05/17 13:35
Matrix: Water
Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 16:32	CMB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: Trip Blank

Lab Sample ID: 680-146532-10

Date Collected: 12/05/17 00:00
Matrix: Water
Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 12:28	CMB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: OF-2

Lab Sample ID: 680-146532-11

Date Collected: 12/05/17 16:35
Matrix: Water
Date Received: 12/08/17 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	506013	12/12/17 16:54	CMB	TAL SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah
5102 LaRoche Avenue
Suite C-10
Savannah, GA 31404 681-Atlanta
Phone: 912.354.7858 Fax:

Chain of Custody Record

220341

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Michelle Stagrook	Site Contact: J. Lanier	Date: 12/05/17	COC No:
Company Name: Ashland Tara Blvd	Tel/Fax: 412-807-1494	Lab Contact: Kris Spikes	Carrier:	1 of 1 COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 678-522-6050	TAT if different from Below			Walk-in Client:
Fax: —	☐ 2 weeks			Lab Sampling:
Project Name: Tara Blvd.	☐ 1 week			
Site: Alterman Jonesboro	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs - 8260B	Sample Specific Notes:
MW-16C	12/6/17	1520	G	W	3	N	N	X	
MW-19B	12/5/17	1330	G	W	3	N	N	X	
MW-19C	12/5/17	1315	G	W	3	N	N	X	
MW-19D	12/5/17	1410	G	W	3	N	N	X	
MW-20C	12/5/17	1535	G	W	3	N	N	X	
SS-1	12/5/17	1640	G	W	3	N	N	X	
SS-2 12/7/17 0845	~~12/5/17~~	~~1645~~	G	W	3	N	N	X	
SS-3	12/5/17	1615	G	W	3	N	N	X	
Dup-1	12/5/17	1335	G	W	3	N	N	X	
Trip Blank	—	—	—	W	3	N	N	X	
OF-2	12/5/17	1635	G	W	3	N	N	X	

680-146532 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

(0.7CCF-0.5)0.2

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1		EHS Support	12/7/17 1400		TA	12/7/17 14:02
2	12/7/17 TA		1610			
3				Received in Laboratory by:		12/8/17 0725

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-146532-1

Login Number: 146532

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-146532-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-140434-1
Client Project/Site: Ashland Alterman (Jonesboro)

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Authorized for release by:
7/12/2017 11:37:14 AM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

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Job ID: 680-140434-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 680-140434-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 06/29/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-13B (680-140434-1), MW-13A (680-140434-2), MW-19D (680-140434-3), MW-19C (680-140434-4), MW-19B (680-140434-5), MW-16B (680-140434-6), MW-16C (680-140434-7), MW-16A (680-140434-8), MW-20C (680-140434-9), MW-15A (680-140434-10), MW-15B (680-140434-11), DUP-1 (680-140434-12), EB-1 (680-140434-13), MW-16A-LF (680-140434-14), MW-16B-LF (680-140434-15), OF-1 (680-140434-16), SS-1 (680-140434-17), SS-2 (680-140434-18), SS-3 (680-140434-19) and TRIP BLANK (680-140434-20) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/07/2017 and 07/08/2017.

Bromomethane failed the recovery criteria high for the MSD of sample MW-13BMSD (680-140434-1) in batch 400-359612.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples MW-19D (680-140434-3)[2X], MW-16B (680-140434-6)[5X], MW-16C (680-140434-7)[5X], MW-16A (680-140434-8)[5X], MW-16A-LF (680-140434-14)[5X] and MW-16B-LF (680-140434-15)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-140434-1	MW-13B	Water	06/26/17 12:47	06/29/17 07:00
680-140434-2	MW-13A	Water	06/26/17 12:53	06/29/17 07:00
680-140434-3	MW-19D	Water	06/26/17 13:53	06/29/17 07:00
680-140434-4	MW-19C	Water	06/26/17 13:48	06/29/17 07:00
680-140434-5	MW-19B	Water	06/26/17 13:40	06/29/17 07:00
680-140434-6	MW-16B	Water	06/26/17 14:25	06/29/17 07:00
680-140434-7	MW-16C	Water	06/26/17 14:20	06/29/17 07:00
680-140434-8	MW-16A	Water	06/26/17 14:22	06/29/17 07:00
680-140434-9	MW-20C	Water	06/26/17 15:00	06/29/17 07:00
680-140434-10	MW-15A	Water	06/26/17 16:10	06/29/17 07:00
680-140434-11	MW-15B	Water	06/26/17 16:15	06/29/17 07:00
680-140434-12	DUP-1	Water	06/26/17 16:20	06/29/17 07:00
680-140434-13	EB-1	Water	06/27/17 09:25	06/29/17 07:00
680-140434-14	MW-16A-LF	Water	06/27/17 11:20	06/29/17 07:00
680-140434-15	MW-16B-LF	Water	06/27/17 10:25	06/29/17 07:00
680-140434-16	OF-1	Water	06/27/17 11:40	06/29/17 07:00
680-140434-17	SS-1	Water	06/27/17 11:45	06/29/17 07:00
680-140434-18	SS-2	Water	06/27/17 11:50	06/29/17 07:00
680-140434-19	SS-3	Water	06/27/17 12:14	06/29/17 07:00
680-140434-20	TRIP BLANK	Water	06/27/17 13:00	06/29/17 07:00

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: MW-13B — Lab Sample ID: 680-140434-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	64		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	53		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-13A — Lab Sample ID: 680-140434-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.5		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	60		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	25		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	37		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	12		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19D — Lab Sample ID: 680-140434-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	51		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	310		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	30		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-19C — Lab Sample ID: 680-140434-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	44		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	220		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	31		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19B — Lab Sample ID: 680-140434-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	150		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	19		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-16B — Lab Sample ID: 680-140434-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	710		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	78		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-16C — Lab Sample ID: 680-140434-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	800		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	86		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-16A — Lab Sample ID: 680-140434-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16A (Continued) — Lab Sample ID: 680-140434-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	240		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	1000		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	140		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-20C — Lab Sample ID: 680-140434-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	250		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-15A — Lab Sample ID: 680-140434-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	270		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	72		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-15B — Lab Sample ID: 680-140434-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	73		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 680-140434-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	71		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: EB-1 — Lab Sample ID: 680-140434-13

No Detections.

Client Sample ID: MW-16A-LF — Lab Sample ID: 680-140434-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	1000		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	150		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-16B-LF — Lab Sample ID: 680-140434-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	940		5.0		ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	5.9		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	110		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: OF-1 — Lab Sample ID: 680-140434-16

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: OF-1 (Continued) — Lab Sample ID: 680-140434-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	94		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-1 — Lab Sample ID: 680-140434-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.4		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	46		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	5.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-2 — Lab Sample ID: 680-140434-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	34		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.9		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-3 — Lab Sample ID: 680-140434-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	17		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.8		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 680-140434-20

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13B

Lab Sample ID: 680-140434-1

Date Collected: 06/26/17 12:47

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 13:24	1
Benzene	<1.0		1.0		ug/L			07/07/17 13:24	1
Bromoform	<5.0		5.0		ug/L			07/07/17 13:24	1
Bromomethane	<1.0	F1	1.0		ug/L			07/07/17 13:24	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 13:24	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 13:24	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 13:24	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 13:24	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 13:24	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 13:24	1
Chloroform	<1.0		1.0		ug/L			07/07/17 13:24	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 13:24	1
cis-1,2-Dichloroethene	**64**		1.0		ug/L			07/07/17 13:24	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 13:24	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 13:24	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 13:24	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 13:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 13:24	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 13:24	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 13:24	1
2-Hexanone	<25		25		ug/L			07/07/17 13:24	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 13:24	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 13:24	1
Styrene	<1.0		1.0		ug/L			07/07/17 13:24	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 13:24	1
Tetrachloroethene	**53**		1.0		ug/L			07/07/17 13:24	1
Toluene	<1.0		1.0		ug/L			07/07/17 13:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 13:24	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 13:24	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 13:24	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 13:24	1
Trichloroethene	**12**		1.0		ug/L			07/07/17 13:24	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 13:24	1
Xylenes, Total	<10		10		ug/L			07/07/17 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 134*		*07/07/17 13:24*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/07/17 13:24*	*1*

Client Sample ID: MW-13A

Lab Sample ID: 680-140434-2

Date Collected: 06/26/17 12:53

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 15:03	1
Benzene	**2.5**		1.0		ug/L			07/07/17 15:03	1
Bromoform	<5.0		5.0		ug/L			07/07/17 15:03	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 15:03	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 15:03	1

Client Sample ID: MW-13A

Lab Sample ID: 680-140434-2

Date Collected: 06/26/17 12:53

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 15:03	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 15:03	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 15:03	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 15:03	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 15:03	1
Chloroform	<1.0		1.0		ug/L			07/07/17 15:03	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 15:03	1
cis-1,2-Dichloroethene	**60**		1.0		ug/L			07/07/17 15:03	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 15:03	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 15:03	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 15:03	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 15:03	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:03	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 15:03	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 15:03	1
2-Hexanone	<25		25		ug/L			07/07/17 15:03	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 15:03	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 15:03	1
Styrene	<1.0		1.0		ug/L			07/07/17 15:03	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 15:03	1
Tetrachloroethene	**25**		1.0		ug/L			07/07/17 15:03	1
Toluene	<1.0		1.0		ug/L			07/07/17 15:03	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:03	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 15:03	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 15:03	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 15:03	1
Trichloroethene	**37**		1.0		ug/L			07/07/17 15:03	1
Vinyl chloride	**12**		1.0		ug/L			07/07/17 15:03	1
Xylenes, Total	<10		10		ug/L			07/07/17 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*67 - 134*		*07/07/17 15:03*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/07/17 15:03*	*1*

Client Sample ID: MW-19D

Lab Sample ID: 680-140434-3

Date Collected: 06/26/17 13:53

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/L			07/07/17 19:08	2
Benzene	<2.0		2.0		ug/L			07/07/17 19:08	2
Bromoform	<10		10		ug/L			07/07/17 19:08	2
Bromomethane	<2.0		2.0		ug/L			07/07/17 19:08	2
2-Butanone (MEK)	<50		50		ug/L			07/07/17 19:08	2
Carbon disulfide	<2.0		2.0		ug/L			07/07/17 19:08	2
Carbon tetrachloride	<2.0		2.0		ug/L			07/07/17 19:08	2
Chlorobenzene	<2.0		2.0		ug/L			07/07/17 19:08	2
Chlorodibromomethane	<2.0		2.0		ug/L			07/07/17 19:08	2
Chloroethane	<2.0		2.0		ug/L			07/07/17 19:08	2

Client Sample ID: MW-19D

Lab Sample ID: 680-140434-3

Date Collected: 06/26/17 13:53

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<2.0		2.0		ug/L			07/07/17 19:08	2
Chloromethane	<2.0		2.0		ug/L			07/07/17 19:08	2
cis-1,2-Dichloroethene	**51**		2.0		ug/L			07/07/17 19:08	2
cis-1,3-Dichloropropene	<10		10		ug/L			07/07/17 19:08	2
Dichlorobromomethane	<2.0		2.0		ug/L			07/07/17 19:08	2
1,1-Dichloroethane	<2.0		2.0		ug/L			07/07/17 19:08	2
1,2-Dichloroethane	<2.0		2.0		ug/L			07/07/17 19:08	2
1,1-Dichloroethene	<2.0		2.0		ug/L			07/07/17 19:08	2
1,2-Dichloropropane	<2.0		2.0		ug/L			07/07/17 19:08	2
Ethylbenzene	<2.0		2.0		ug/L			07/07/17 19:08	2
2-Hexanone	<50		50		ug/L			07/07/17 19:08	2
Methylene Chloride	<10		10		ug/L			07/07/17 19:08	2
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			07/07/17 19:08	2
Styrene	<2.0		2.0		ug/L			07/07/17 19:08	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			07/07/17 19:08	2
Tetrachloroethene	**310**		2.0		ug/L			07/07/17 19:08	2
Toluene	<2.0		2.0		ug/L			07/07/17 19:08	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			07/07/17 19:08	2
trans-1,3-Dichloropropene	<10		10		ug/L			07/07/17 19:08	2
1,1,1-Trichloroethane	<2.0		2.0		ug/L			07/07/17 19:08	2
1,1,2-Trichloroethane	<10		10		ug/L			07/07/17 19:08	2
Trichloroethene	**30**		2.0		ug/L			07/07/17 19:08	2
Vinyl chloride	<2.0		2.0		ug/L			07/07/17 19:08	2
Xylenes, Total	<20		20		ug/L			07/07/17 19:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*67 - 134*		*07/07/17 19:08*	*2*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 19:08*	*2*

Client Sample ID: MW-19C

Lab Sample ID: 680-140434-4

Date Collected: 06/26/17 13:48

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 16:30	1
Benzene	<1.0		1.0		ug/L			07/08/17 16:30	1
Bromoform	<5.0		5.0		ug/L			07/08/17 16:30	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 16:30	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 16:30	1
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 16:30	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 16:30	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 16:30	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 16:30	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 16:30	1
Chloroform	<1.0		1.0		ug/L			07/08/17 16:30	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 16:30	1
cis-1,2-Dichloroethene	**44**		1.0		ug/L			07/08/17 16:30	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 16:30	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 16:30	1

Client Sample ID: MW-19C

Lab Sample ID: 680-140434-4

Date Collected: 06/26/17 13:48

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 16:30	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 16:30	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:30	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 16:30	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 16:30	1
2-Hexanone	<25		25		ug/L			07/08/17 16:30	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 16:30	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 16:30	1
Styrene	<1.0		1.0		ug/L			07/08/17 16:30	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 16:30	1
Tetrachloroethene	**220**		1.0		ug/L			07/08/17 16:30	1
Toluene	<1.0		1.0		ug/L			07/08/17 16:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:30	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 16:30	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 16:30	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 16:30	1
Trichloroethene	**31**		1.0		ug/L			07/08/17 16:30	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 16:30	1
Xylenes, Total	<10		10		ug/L			07/08/17 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/08/17 16:30*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/08/17 16:30*	*1*

Client Sample ID: MW-19B

Lab Sample ID: 680-140434-5

Date Collected: 06/26/17 13:40

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 16:55	1
Benzene	<1.0		1.0		ug/L			07/08/17 16:55	1
Bromoform	<5.0		5.0		ug/L			07/08/17 16:55	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 16:55	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 16:55	1
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 16:55	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 16:55	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 16:55	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 16:55	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 16:55	1
Chloroform	<1.0		1.0		ug/L			07/08/17 16:55	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 16:55	1
cis-1,2-Dichloroethene	**33**		1.0		ug/L			07/08/17 16:55	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 16:55	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 16:55	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 16:55	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 16:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:55	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 16:55	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 16:55	1

Client Sample ID: MW-19B

Lab Sample ID: 680-140434-5

Date Collected: 06/26/17 13:40

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<25		25		ug/L			07/08/17 16:55	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 16:55	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 16:55	1
Styrene	<1.0		1.0		ug/L			07/08/17 16:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 16:55	1
Tetrachloroethene	**150**		1.0		ug/L			07/08/17 16:55	1
Toluene	<1.0		1.0		ug/L			07/08/17 16:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:55	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 16:55	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 16:55	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 16:55	1
Trichloroethene	**19**		1.0		ug/L			07/08/17 16:55	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 16:55	1
Xylenes, Total	<10		10		ug/L			07/08/17 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/08/17 16:55*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/08/17 16:55*	*1*

Client Sample ID: MW-16B

Lab Sample ID: 680-140434-6

Date Collected: 06/26/17 14:25

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<130		130		ug/L			07/07/17 20:47	5
Benzene	<5.0		5.0		ug/L			07/07/17 20:47	5
Bromoform	<25		25		ug/L			07/07/17 20:47	5
Bromomethane	<5.0		5.0		ug/L			07/07/17 20:47	5
2-Butanone (MEK)	<130		130		ug/L			07/07/17 20:47	5
Carbon disulfide	<5.0		5.0		ug/L			07/07/17 20:47	5
Carbon tetrachloride	<5.0		5.0		ug/L			07/07/17 20:47	5
Chlorobenzene	<5.0		5.0		ug/L			07/07/17 20:47	5
Chlorodibromomethane	<5.0		5.0		ug/L			07/07/17 20:47	5
Chloroethane	<5.0		5.0		ug/L			07/07/17 20:47	5
Chloroform	<5.0		5.0		ug/L			07/07/17 20:47	5
Chloromethane	<5.0		5.0		ug/L			07/07/17 20:47	5
cis-1,2-Dichloroethene	**160**		5.0		ug/L			07/07/17 20:47	5
cis-1,3-Dichloropropene	<25		25		ug/L			07/07/17 20:47	5
Dichlorobromomethane	<5.0		5.0		ug/L			07/07/17 20:47	5
1,1-Dichloroethane	<5.0		5.0		ug/L			07/07/17 20:47	5
1,2-Dichloroethane	<5.0		5.0		ug/L			07/07/17 20:47	5
1,1-Dichloroethene	<5.0		5.0		ug/L			07/07/17 20:47	5
1,2-Dichloropropane	<5.0		5.0		ug/L			07/07/17 20:47	5
Ethylbenzene	<5.0		5.0		ug/L			07/07/17 20:47	5
2-Hexanone	<130		130		ug/L			07/07/17 20:47	5
Methylene Chloride	<25		25		ug/L			07/07/17 20:47	5
4-Methyl-2-pentanone (MIBK)	<130		130		ug/L			07/07/17 20:47	5
Styrene	<5.0		5.0		ug/L			07/07/17 20:47	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			07/07/17 20:47	5

Client Sample ID: MW-16B

Lab Sample ID: 680-140434-6

Date Collected: 06/26/17 14:25

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**710**		5.0		ug/L			07/07/17 20:47	5
Toluene	<5.0		5.0		ug/L			07/07/17 20:47	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			07/07/17 20:47	5
trans-1,3-Dichloropropene	<25		25		ug/L			07/07/17 20:47	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			07/07/17 20:47	5
1,1,2-Trichloroethane	<25		25		ug/L			07/07/17 20:47	5
Trichloroethene	**78**		5.0		ug/L			07/07/17 20:47	5
Vinyl chloride	<5.0		5.0		ug/L			07/07/17 20:47	5
Xylenes, Total	<50		50		ug/L			07/07/17 20:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 134*		*07/07/17 20:47*	*5*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 20:47*	*5*

Client Sample ID: MW-16C

Lab Sample ID: 680-140434-7

Date Collected: 06/26/17 14:20

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<130		130		ug/L			07/07/17 21:11	5
Benzene	<5.0		5.0		ug/L			07/07/17 21:11	5
Bromoform	<25		25		ug/L			07/07/17 21:11	5
Bromomethane	<5.0		5.0		ug/L			07/07/17 21:11	5
2-Butanone (MEK)	<130		130		ug/L			07/07/17 21:11	5
Carbon disulfide	<5.0		5.0		ug/L			07/07/17 21:11	5
Carbon tetrachloride	<5.0		5.0		ug/L			07/07/17 21:11	5
Chlorobenzene	<5.0		5.0		ug/L			07/07/17 21:11	5
Chlorodibromomethane	<5.0		5.0		ug/L			07/07/17 21:11	5
Chloroethane	<5.0		5.0		ug/L			07/07/17 21:11	5
Chloroform	<5.0		5.0		ug/L			07/07/17 21:11	5
Chloromethane	<5.0		5.0		ug/L			07/07/17 21:11	5
cis-1,2-Dichloroethene	**120**		5.0		ug/L			07/07/17 21:11	5
cis-1,3-Dichloropropene	<25		25		ug/L			07/07/17 21:11	5
Dichlorobromomethane	<5.0		5.0		ug/L			07/07/17 21:11	5
1,1-Dichloroethane	<5.0		5.0		ug/L			07/07/17 21:11	5
1,2-Dichloroethane	<5.0		5.0		ug/L			07/07/17 21:11	5
1,1-Dichloroethene	<5.0		5.0		ug/L			07/07/17 21:11	5
1,2-Dichloropropane	<5.0		5.0		ug/L			07/07/17 21:11	5
Ethylbenzene	<5.0		5.0		ug/L			07/07/17 21:11	5
2-Hexanone	<130		130		ug/L			07/07/17 21:11	5
Methylene Chloride	<25		25		ug/L			07/07/17 21:11	5
4-Methyl-2-pentanone (MIBK)	<130		130		ug/L			07/07/17 21:11	5
Styrene	<5.0		5.0		ug/L			07/07/17 21:11	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			07/07/17 21:11	5
Tetrachloroethene	**800**		5.0		ug/L			07/07/17 21:11	5
Toluene	<5.0		5.0		ug/L			07/07/17 21:11	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			07/07/17 21:11	5
trans-1,3-Dichloropropene	<25		25		ug/L			07/07/17 21:11	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			07/07/17 21:11	5

Client Sample ID: MW-16C

Lab Sample ID: 680-140434-7

Date Collected: 06/26/17 14:20

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<25		25		ug/L			07/07/17 21:11	5
Trichloroethene	**86**		5.0		ug/L			07/07/17 21:11	5
Vinyl chloride	<5.0		5.0		ug/L			07/07/17 21:11	5
Xylenes, Total	<50		50		ug/L			07/07/17 21:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 134*		*07/07/17 21:11*	*5*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 21:11*	*5*

Client Sample ID: MW-16A

Lab Sample ID: 680-140434-8

Date Collected: 06/26/17 14:22

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<130		130		ug/L			07/07/17 21:36	5
Benzene	<5.0		5.0		ug/L			07/07/17 21:36	5
Bromoform	<25		25		ug/L			07/07/17 21:36	5
Bromomethane	<5.0		5.0		ug/L			07/07/17 21:36	5
2-Butanone (MEK)	<130		130		ug/L			07/07/17 21:36	5
Carbon disulfide	<5.0		5.0		ug/L			07/07/17 21:36	5
Carbon tetrachloride	<5.0		5.0		ug/L			07/07/17 21:36	5
Chlorobenzene	<5.0		5.0		ug/L			07/07/17 21:36	5
Chlorodibromomethane	<5.0		5.0		ug/L			07/07/17 21:36	5
Chloroethane	<5.0		5.0		ug/L			07/07/17 21:36	5
Chloroform	<5.0		5.0		ug/L			07/07/17 21:36	5
Chloromethane	<5.0		5.0		ug/L			07/07/17 21:36	5
cis-1,2-Dichloroethene	**240**		5.0		ug/L			07/07/17 21:36	5
cis-1,3-Dichloropropene	<25		25		ug/L			07/07/17 21:36	5
Dichlorobromomethane	<5.0		5.0		ug/L			07/07/17 21:36	5
1,1-Dichloroethane	<5.0		5.0		ug/L			07/07/17 21:36	5
1,2-Dichloroethane	<5.0		5.0		ug/L			07/07/17 21:36	5
1,1-Dichloroethene	<5.0		5.0		ug/L			07/07/17 21:36	5
1,2-Dichloropropane	<5.0		5.0		ug/L			07/07/17 21:36	5
Ethylbenzene	<5.0		5.0		ug/L			07/07/17 21:36	5
2-Hexanone	<130		130		ug/L			07/07/17 21:36	5
Methylene Chloride	<25		25		ug/L			07/07/17 21:36	5
4-Methyl-2-pentanone (MIBK)	<130		130		ug/L			07/07/17 21:36	5
Styrene	<5.0		5.0		ug/L			07/07/17 21:36	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			07/07/17 21:36	5
Tetrachloroethene	**1000**		5.0		ug/L			07/07/17 21:36	5
Toluene	<5.0		5.0		ug/L			07/07/17 21:36	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			07/07/17 21:36	5
trans-1,3-Dichloropropene	<25		25		ug/L			07/07/17 21:36	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			07/07/17 21:36	5
1,1,2-Trichloroethane	<25		25		ug/L			07/07/17 21:36	5
Trichloroethene	**140**		5.0		ug/L			07/07/17 21:36	5
Vinyl chloride	<5.0		5.0		ug/L			07/07/17 21:36	5
Xylenes, Total	<50		50		ug/L			07/07/17 21:36	5

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: MW-16A

Lab Sample ID: 680-140434-8

Date Collected: 06/26/17 14:22

Matrix: Water

Date Received: 06/29/17 07:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 134*		*07/07/17 21:36*	*5*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/07/17 21:36*	*5*

Client Sample ID: MW-20C

Lab Sample ID: 680-140434-9

Date Collected: 06/26/17 15:00

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 17:19	1
Benzene	<1.0		1.0		ug/L			07/08/17 17:19	1
Bromoform	<5.0		5.0		ug/L			07/08/17 17:19	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 17:19	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 17:19	1
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 17:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 17:19	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 17:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 17:19	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 17:19	1
Chloroform	<1.0		1.0		ug/L			07/08/17 17:19	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 17:19	1
cis-1,2-Dichloroethene	**25**		1.0		ug/L			07/08/17 17:19	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 17:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 17:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 17:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 17:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 17:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 17:19	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 17:19	1
2-Hexanone	<25		25		ug/L			07/08/17 17:19	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 17:19	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 17:19	1
Styrene	<1.0		1.0		ug/L			07/08/17 17:19	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 17:19	1
Tetrachloroethene	**250**		1.0		ug/L			07/08/17 17:19	1
Toluene	<1.0		1.0		ug/L			07/08/17 17:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 17:19	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 17:19	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 17:19	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 17:19	1
Trichloroethene	**29**		1.0		ug/L			07/08/17 17:19	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 17:19	1
Xylenes, Total	<10		10		ug/L			07/08/17 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*67 - 134*		*07/08/17 17:19*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*07/08/17 17:19*	*1*

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: MW-15A

Lab Sample ID: 680-140434-10

Date Collected: 06/26/17 16:10

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 15:27	1
Benzene	<1.0		1.0		ug/L			07/07/17 15:27	1
Bromoform	<5.0		5.0		ug/L			07/07/17 15:27	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 15:27	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 15:27	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 15:27	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 15:27	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 15:27	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 15:27	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 15:27	1
Chloroform	<1.0		1.0		ug/L			07/07/17 15:27	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 15:27	1
cis-1,2-Dichloroethene	**15**		1.0		ug/L			07/07/17 15:27	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 15:27	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 15:27	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 15:27	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 15:27	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:27	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 15:27	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 15:27	1
2-Hexanone	<25		25		ug/L			07/07/17 15:27	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 15:27	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 15:27	1
Styrene	<1.0		1.0		ug/L			07/07/17 15:27	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 15:27	1
Tetrachloroethene	**270**		1.0		ug/L			07/07/17 15:27	1
Toluene	<1.0		1.0		ug/L			07/07/17 15:27	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:27	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 15:27	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 15:27	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 15:27	1
Trichloroethene	**72**		1.0		ug/L			07/07/17 15:27	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 15:27	1
Xylenes, Total	<10		10		ug/L			07/07/17 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 134*		*07/07/17 15:27*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 15:27*	*1*

Client Sample ID: MW-15B

Lab Sample ID: 680-140434-11

Date Collected: 06/26/17 16:15

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 15:52	1
Benzene	<1.0		1.0		ug/L			07/07/17 15:52	1
Bromoform	<5.0		5.0		ug/L			07/07/17 15:52	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 15:52	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 15:52	1

Client Sample ID: MW-15B

Lab Sample ID: 680-140434-11

Date Collected: 06/26/17 16:15

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 15:52	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 15:52	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 15:52	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 15:52	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 15:52	1
Chloroform	<1.0		1.0		ug/L			07/07/17 15:52	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 15:52	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:52	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 15:52	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 15:52	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 15:52	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 15:52	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:52	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 15:52	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 15:52	1
2-Hexanone	<25		25		ug/L			07/07/17 15:52	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 15:52	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 15:52	1
Styrene	<1.0		1.0		ug/L			07/07/17 15:52	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 15:52	1
Tetrachloroethene	**73**		1.0		ug/L			07/07/17 15:52	1
Toluene	<1.0		1.0		ug/L			07/07/17 15:52	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 15:52	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 15:52	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 15:52	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 15:52	1
Trichloroethene	**2.2**		1.0		ug/L			07/07/17 15:52	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 15:52	1
Xylenes, Total	<10		10		ug/L			07/07/17 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 134*		*07/07/17 15:52*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*07/07/17 15:52*	*1*

Client Sample ID: DUP-1

Lab Sample ID: 680-140434-12

Date Collected: 06/26/17 16:20

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 16:16	1
Benzene	<1.0		1.0		ug/L			07/07/17 16:16	1
Bromoform	<5.0		5.0		ug/L			07/07/17 16:16	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 16:16	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 16:16	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 16:16	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 16:16	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 16:16	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 16:16	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 16:16	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: DUP-1

Lab Sample ID: 680-140434-12

Date Collected: 06/26/17 16:20
Matrix: Water
Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<1.0		1.0		ug/L			07/07/17 16:16	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 16:16	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 16:16	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 16:16	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 16:16	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 16:16	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 16:16	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 16:16	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 16:16	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 16:16	1
2-Hexanone	<25		25		ug/L			07/07/17 16:16	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 16:16	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 16:16	1
Styrene	<1.0		1.0		ug/L			07/07/17 16:16	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 16:16	1
Tetrachloroethene	**71**		1.0		ug/L			07/07/17 16:16	1
Toluene	<1.0		1.0		ug/L			07/07/17 16:16	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 16:16	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 16:16	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 16:16	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 16:16	1
Trichloroethene	**2.1**		1.0		ug/L			07/07/17 16:16	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 16:16	1
Xylenes, Total	<10		10		ug/L			07/07/17 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*67 - 134*		*07/07/17 16:16*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/07/17 16:16*	*1*

Client Sample ID: EB-1

Lab Sample ID: 680-140434-13

Date Collected: 06/27/17 09:25
Matrix: Water
Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 16:41	1
Benzene	<1.0		1.0		ug/L			07/07/17 16:41	1
Bromoform	<5.0		5.0		ug/L			07/07/17 16:41	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 16:41	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 16:41	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 16:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 16:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 16:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 16:41	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 16:41	1
Chloroform	<1.0		1.0		ug/L			07/07/17 16:41	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 16:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 16:41	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 16:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 16:41	1

Client Sample ID: EB-1

Lab Sample ID: 680-140434-13

Date Collected: 06/27/17 09:25

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 16:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 16:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 16:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 16:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 16:41	1
2-Hexanone	<25		25		ug/L			07/07/17 16:41	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 16:41	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 16:41	1
Styrene	<1.0		1.0		ug/L			07/07/17 16:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 16:41	1
Tetrachloroethene	<1.0		1.0		ug/L			07/07/17 16:41	1
Toluene	<1.0		1.0		ug/L			07/07/17 16:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 16:41	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 16:41	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 16:41	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 16:41	1
Trichloroethene	<1.0		1.0		ug/L			07/07/17 16:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 16:41	1
Xylenes, Total	<10		10		ug/L			07/07/17 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/07/17 16:41*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/07/17 16:41*	*1*

Client Sample ID: MW-16A-LF

Lab Sample ID: 680-140434-14

Date Collected: 06/27/17 11:20

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<130		130		ug/L			07/07/17 22:01	5
Benzene	<5.0		5.0		ug/L			07/07/17 22:01	5
Bromoform	<25		25		ug/L			07/07/17 22:01	5
Bromomethane	<5.0		5.0		ug/L			07/07/17 22:01	5
2-Butanone (MEK)	<130		130		ug/L			07/07/17 22:01	5
Carbon disulfide	<5.0		5.0		ug/L			07/07/17 22:01	5
Carbon tetrachloride	<5.0		5.0		ug/L			07/07/17 22:01	5
Chlorobenzene	<5.0		5.0		ug/L			07/07/17 22:01	5
Chlorodibromomethane	<5.0		5.0		ug/L			07/07/17 22:01	5
Chloroethane	<5.0		5.0		ug/L			07/07/17 22:01	5
Chloroform	<5.0		5.0		ug/L			07/07/17 22:01	5
Chloromethane	<5.0		5.0		ug/L			07/07/17 22:01	5
cis-1,2-Dichloroethene	**260**		5.0		ug/L			07/07/17 22:01	5
cis-1,3-Dichloropropene	<25		25		ug/L			07/07/17 22:01	5
Dichlorobromomethane	<5.0		5.0		ug/L			07/07/17 22:01	5
1,1-Dichloroethane	<5.0		5.0		ug/L			07/07/17 22:01	5
1,2-Dichloroethane	<5.0		5.0		ug/L			07/07/17 22:01	5
1,1-Dichloroethene	<5.0		5.0		ug/L			07/07/17 22:01	5
1,2-Dichloropropane	<5.0		5.0		ug/L			07/07/17 22:01	5
Ethylbenzene	<5.0		5.0		ug/L			07/07/17 22:01	5

Client Sample ID: MW-16A-LF

Lab Sample ID: 680-140434-14

Date Collected: 06/27/17 11:20

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<130		130		ug/L			07/07/17 22:01	5
Methylene Chloride	<25		25		ug/L			07/07/17 22:01	5
4-Methyl-2-pentanone (MIBK)	<130		130		ug/L			07/07/17 22:01	5
Styrene	<5.0		5.0		ug/L			07/07/17 22:01	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			07/07/17 22:01	5
Tetrachloroethene	**1000**		5.0		ug/L			07/07/17 22:01	5
Toluene	<5.0		5.0		ug/L			07/07/17 22:01	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			07/07/17 22:01	5
trans-1,3-Dichloropropene	<25		25		ug/L			07/07/17 22:01	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			07/07/17 22:01	5
1,1,2-Trichloroethane	<25		25		ug/L			07/07/17 22:01	5
Trichloroethene	**150**		5.0		ug/L			07/07/17 22:01	5
Vinyl chloride	<5.0		5.0		ug/L			07/07/17 22:01	5
Xylenes, Total	<50		50		ug/L			07/07/17 22:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/07/17 22:01*	*5*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/07/17 22:01*	*5*

Client Sample ID: MW-16B-LF

Lab Sample ID: 680-140434-15

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<130		130		ug/L			07/07/17 22:25	5
Benzene	<5.0		5.0		ug/L			07/07/17 22:25	5
Bromoform	<25		25		ug/L			07/07/17 22:25	5
Bromomethane	<5.0		5.0		ug/L			07/07/17 22:25	5
2-Butanone (MEK)	<130		130		ug/L			07/07/17 22:25	5
Carbon disulfide	<5.0		5.0		ug/L			07/07/17 22:25	5
Carbon tetrachloride	<5.0		5.0		ug/L			07/07/17 22:25	5
Chlorobenzene	<5.0		5.0		ug/L			07/07/17 22:25	5
Chlorodibromomethane	<5.0		5.0		ug/L			07/07/17 22:25	5
Chloroethane	<5.0		5.0		ug/L			07/07/17 22:25	5
Chloroform	<5.0		5.0		ug/L			07/07/17 22:25	5
Chloromethane	<5.0		5.0		ug/L			07/07/17 22:25	5
cis-1,2-Dichloroethene	**260**		5.0		ug/L			07/07/17 22:25	5
cis-1,3-Dichloropropene	<25		25		ug/L			07/07/17 22:25	5
Dichlorobromomethane	<5.0		5.0		ug/L			07/07/17 22:25	5
1,1-Dichloroethane	<5.0		5.0		ug/L			07/07/17 22:25	5
1,2-Dichloroethane	<5.0		5.0		ug/L			07/07/17 22:25	5
1,1-Dichloroethene	<5.0		5.0		ug/L			07/07/17 22:25	5
1,2-Dichloropropane	<5.0		5.0		ug/L			07/07/17 22:25	5
Ethylbenzene	<5.0		5.0		ug/L			07/07/17 22:25	5
2-Hexanone	<130		130		ug/L			07/07/17 22:25	5
Methylene Chloride	<25		25		ug/L			07/07/17 22:25	5
4-Methyl-2-pentanone (MIBK)	<130		130		ug/L			07/07/17 22:25	5
Styrene	<5.0		5.0		ug/L			07/07/17 22:25	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			07/07/17 22:25	5

Client Sample ID: MW-16B-LF

Lab Sample ID: 680-140434-15

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**940**		5.0		ug/L			07/07/17 22:25	5
Toluene	<5.0		5.0		ug/L			07/07/17 22:25	5
trans-1,2-Dichloroethene	**5.9**		5.0		ug/L			07/07/17 22:25	5
trans-1,3-Dichloropropene	<25		25		ug/L			07/07/17 22:25	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			07/07/17 22:25	5
1,1,2-Trichloroethane	<25		25		ug/L			07/07/17 22:25	5
Trichloroethene	**110**		5.0		ug/L			07/07/17 22:25	5
Vinyl chloride	<5.0		5.0		ug/L			07/07/17 22:25	5
Xylenes, Total	<50		50		ug/L			07/07/17 22:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/07/17 22:25*	*5*
Toluene-d8 (Surr)	*92*		*80 - 120*		*07/07/17 22:25*	*5*

Client Sample ID: OF-1

Lab Sample ID: 680-140434-16

Date Collected: 06/27/17 11:40

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 17:05	1
Benzene	<1.0		1.0		ug/L			07/07/17 17:05	1
Bromoform	<5.0		5.0		ug/L			07/07/17 17:05	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 17:05	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 17:05	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 17:05	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 17:05	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 17:05	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 17:05	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 17:05	1
Chloroform	<1.0		1.0		ug/L			07/07/17 17:05	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 17:05	1
cis-1,2-Dichloroethene	**8.0**		1.0		ug/L			07/07/17 17:05	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 17:05	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 17:05	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 17:05	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 17:05	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 17:05	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 17:05	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 17:05	1
2-Hexanone	<25		25		ug/L			07/07/17 17:05	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 17:05	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 17:05	1
Styrene	<1.0		1.0		ug/L			07/07/17 17:05	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 17:05	1
Tetrachloroethene	**94**		1.0		ug/L			07/07/17 17:05	1
Toluene	<1.0		1.0		ug/L			07/07/17 17:05	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 17:05	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 17:05	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 17:05	1

Client Sample ID: OF-1

Lab Sample ID: 680-140434-16

Date Collected: 06/27/17 11:40

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 17:05	1
Trichloroethene	**14**		1.0		ug/L			07/07/17 17:05	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 17:05	1
Xylenes, Total	<10		10		ug/L			07/07/17 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 134*		*07/07/17 17:05*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 17:05*	*1*

Client Sample ID: SS-1

Lab Sample ID: 680-140434-17

Date Collected: 06/27/17 11:45

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 17:30	1
Benzene	<1.0		1.0		ug/L			07/07/17 17:30	1
Bromoform	<5.0		5.0		ug/L			07/07/17 17:30	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 17:30	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 17:30	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 17:30	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 17:30	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 17:30	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 17:30	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 17:30	1
Chloroform	<1.0		1.0		ug/L			07/07/17 17:30	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 17:30	1
cis-1,2-Dichloroethene	**5.4**		1.0		ug/L			07/07/17 17:30	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 17:30	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 17:30	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 17:30	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 17:30	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 17:30	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 17:30	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 17:30	1
2-Hexanone	<25		25		ug/L			07/07/17 17:30	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 17:30	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 17:30	1
Styrene	<1.0		1.0		ug/L			07/07/17 17:30	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 17:30	1
Tetrachloroethene	**46**		1.0		ug/L			07/07/17 17:30	1
Toluene	<1.0		1.0		ug/L			07/07/17 17:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 17:30	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 17:30	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 17:30	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 17:30	1
Trichloroethene	**5.7**		1.0		ug/L			07/07/17 17:30	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 17:30	1
Xylenes, Total	<10		10		ug/L			07/07/17 17:30	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: SS-1

Lab Sample ID: 680-140434-17

Date Collected: 06/27/17 11:45
Matrix: Water
Date Received: 06/29/17 07:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		67 - 134		07/07/17 17:30	1
Toluene-d8 (Surr)	92		80 - 120		07/07/17 17:30	1

Client Sample ID: SS-2

Lab Sample ID: 680-140434-18

Date Collected: 06/27/17 11:50
Matrix: Water
Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 17:55	1
Benzene	<1.0		1.0		ug/L			07/07/17 17:55	1
Bromoform	<5.0		5.0		ug/L			07/07/17 17:55	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 17:55	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 17:55	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 17:55	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 17:55	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 17:55	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 17:55	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 17:55	1
Chloroform	<1.0		1.0		ug/L			07/07/17 17:55	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 17:55	1
cis-1,2-Dichloroethene	**2.4**		1.0		ug/L			07/07/17 17:55	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 17:55	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 17:55	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 17:55	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 17:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 17:55	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 17:55	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 17:55	1
2-Hexanone	<25		25		ug/L			07/07/17 17:55	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 17:55	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 17:55	1
Styrene	<1.0		1.0		ug/L			07/07/17 17:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 17:55	1
Tetrachloroethene	**34**		1.0		ug/L			07/07/17 17:55	1
Toluene	<1.0		1.0		ug/L			07/07/17 17:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 17:55	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 17:55	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 17:55	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 17:55	1
Trichloroethene	**2.9**		1.0		ug/L			07/07/17 17:55	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 17:55	1
Xylenes, Total	<10		10		ug/L			07/07/17 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		67 - 134		07/07/17 17:55	1
Toluene-d8 (Surr)	93		80 - 120		07/07/17 17:55	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: SS-3

Lab Sample ID: 680-140434-19

Date Collected: 06/27/17 12:14

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 18:19	1
Benzene	<1.0		1.0		ug/L			07/07/17 18:19	1
Bromoform	<5.0		5.0		ug/L			07/07/17 18:19	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 18:19	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 18:19	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 18:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 18:19	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 18:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 18:19	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 18:19	1
Chloroform	<1.0		1.0		ug/L			07/07/17 18:19	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 18:19	1
cis-1,2-Dichloroethene	**1.4**		1.0		ug/L			07/07/17 18:19	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 18:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 18:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 18:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 18:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 18:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 18:19	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 18:19	1
2-Hexanone	<25		25		ug/L			07/07/17 18:19	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 18:19	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 18:19	1
Styrene	<1.0		1.0		ug/L			07/07/17 18:19	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 18:19	1
Tetrachloroethene	**17**		1.0		ug/L			07/07/17 18:19	1
Toluene	<1.0		1.0		ug/L			07/07/17 18:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 18:19	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 18:19	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 18:19	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 18:19	1
Trichloroethene	**1.8**		1.0		ug/L			07/07/17 18:19	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 18:19	1
Xylenes, Total	<10		10		ug/L			07/07/17 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*67 - 134*		*07/07/17 18:19*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 18:19*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-140434-20

Date Collected: 06/27/17 13:00

Matrix: Water

Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 18:44	1
Benzene	<1.0		1.0		ug/L			07/07/17 18:44	1
Bromoform	<5.0		5.0		ug/L			07/07/17 18:44	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 18:44	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 18:44	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: TRIP BLANK
Date Collected: 06/27/17 13:00
Date Received: 06/29/17 07:00

Lab Sample ID: 680-140434-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 18:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 18:44	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 18:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 18:44	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 18:44	1
Chloroform	<1.0		1.0		ug/L			07/07/17 18:44	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 18:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 18:44	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 18:44	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 18:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 18:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 18:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 18:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 18:44	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 18:44	1
2-Hexanone	<25		25		ug/L			07/07/17 18:44	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 18:44	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 18:44	1
Styrene	<1.0		1.0		ug/L			07/07/17 18:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 18:44	1
Tetrachloroethene	<1.0		1.0		ug/L			07/07/17 18:44	1
Toluene	<1.0		1.0		ug/L			07/07/17 18:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 18:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 18:44	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 18:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 18:44	1
Trichloroethene	<1.0		1.0		ug/L			07/07/17 18:44	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 18:44	1
Xylenes, Total	<10		10		ug/L			07/07/17 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 134*		*07/07/17 18:44*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/07/17 18:44*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	12DCE (67-134)	TOL (80-120)										
680-140434-1	MW-13B	87	95										
680-140434-1 MS	MW-13B	86	93										
680-140434-1 MSD	MW-13B	88	93										
680-140434-2	MW-13A	85	94										
680-140434-3	MW-19D	83	93										
680-140434-4	MW-19C	89	91										
680-140434-5	MW-19B	89	93										
680-140434-6	MW-16B	88	93										
680-140434-7	MW-16C	87	93										
680-140434-8	MW-16A	87	94										
680-140434-9	MW-20C	91	88										
680-140434-10	MW-15A	87	93										
680-140434-11	MW-15B	88	92										
680-140434-12	DUP-1	90	94										
680-140434-13	EB-1	89	95										
680-140434-14	MW-16A-LF	89	91										
680-140434-15	MW-16B-LF	89	92										
680-140434-16	OF-1	88	93										
680-140434-17	SS-1	90	92										
680-140434-18	SS-2	90	93										
680-140434-19	SS-3	90	93										
680-140434-20	TRIP BLANK	88	94										
LCS 400-359612/1002	Lab Control Sample	89	93										
LCS 400-359751/1002	Lab Control Sample	87	92										
MB 400-359612/4	Method Blank	91	93										
MB 400-359751/4	Method Blank	89	93										

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 400-359612/4
Matrix: Water
Analysis Batch: 359612

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/07/17 13:00	1
Benzene	<1.0		1.0		ug/L			07/07/17 13:00	1
Bromoform	<5.0		5.0		ug/L			07/07/17 13:00	1
Bromomethane	<1.0		1.0		ug/L			07/07/17 13:00	1
2-Butanone (MEK)	<25		25		ug/L			07/07/17 13:00	1
Carbon disulfide	<1.0		1.0		ug/L			07/07/17 13:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/07/17 13:00	1
Chlorobenzene	<1.0		1.0		ug/L			07/07/17 13:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/07/17 13:00	1
Chloroethane	<1.0		1.0		ug/L			07/07/17 13:00	1
Chloroform	<1.0		1.0		ug/L			07/07/17 13:00	1
Chloromethane	<1.0		1.0		ug/L			07/07/17 13:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 13:00	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 13:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/07/17 13:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/07/17 13:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/07/17 13:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/07/17 13:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/07/17 13:00	1
Ethylbenzene	<1.0		1.0		ug/L			07/07/17 13:00	1
2-Hexanone	<25		25		ug/L			07/07/17 13:00	1
Methylene Chloride	<5.0		5.0		ug/L			07/07/17 13:00	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/07/17 13:00	1
Styrene	<1.0		1.0		ug/L			07/07/17 13:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/07/17 13:00	1
Tetrachloroethene	<1.0		1.0		ug/L			07/07/17 13:00	1
Toluene	<1.0		1.0		ug/L			07/07/17 13:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/07/17 13:00	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/07/17 13:00	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/07/17 13:00	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/07/17 13:00	1
Trichloroethene	<1.0		1.0		ug/L			07/07/17 13:00	1
Vinyl chloride	<1.0		1.0		ug/L			07/07/17 13:00	1
Xylenes, Total	<10		10		ug/L			07/07/17 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*67 - 134*		*07/07/17 13:00*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/17 13:00*	*1*

Lab Sample ID: LCS 400-359612/1002
Matrix: Water
Analysis Batch: 359612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	173		ug/L		86	43 - 160
Benzene	50.0	52.0		ug/L		104	70 - 130
Bromoform	50.0	40.6		ug/L		81	57 - 140
Bromomethane	50.0	73.2		ug/L		146	10 - 160

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

Lab Sample ID: LCS 400-359612/1002
Matrix: Water
Analysis Batch: 359612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	200	199		ug/L		100	61 - 145
Carbon disulfide	50.0	44.7		ug/L		89	61 - 137
Carbon tetrachloride	50.0	51.6		ug/L		103	61 - 137
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Chlorodibromomethane	50.0	45.3		ug/L		91	67 - 135
Chloroethane	50.0	51.5		ug/L		103	55 - 141
Chloroform	50.0	50.6		ug/L		101	69 - 130
Chloromethane	50.0	43.1		ug/L		86	58 - 137
cis-1,2-Dichloroethene	50.0	47.3		ug/L		95	68 - 130
cis-1,3-Dichloropropene	50.0	47.7		ug/L		95	69 - 132
Dichlorobromomethane	50.0	46.9		ug/L		94	67 - 133
1,1-Dichloroethane	50.0	47.9		ug/L		96	70 - 130
1,2-Dichloroethane	50.0	46.3		ug/L		93	69 - 130
1,1-Dichloroethene	50.0	55.9		ug/L		112	63 - 134
1,2-Dichloropropane	50.0	48.1		ug/L		96	70 - 130
Ethylbenzene	50.0	48.2		ug/L		96	70 - 130
2-Hexanone	200	156		ug/L		78	65 - 137
Methylene Chloride	50.0	51.1		ug/L		102	66 - 135
4-Methyl-2-pentanone (MIBK)	200	173		ug/L		86	69 - 138
Styrene	50.0	49.0		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	70 - 131
Tetrachloroethene	50.0	49.7		ug/L		99	65 - 130
Toluene	50.0	48.2		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	41.2		ug/L		82	63 - 130
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	68 - 130
1,1,2-Trichloroethane	50.0	45.6		ug/L		91	70 - 130
Trichloroethene	50.0	56.5		ug/L		113	70 - 130
Vinyl chloride	50.0	49.4		ug/L		99	59 - 136
Xylenes, Total	100	95.5		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 680-140434-1 MS
Matrix: Water
Analysis Batch: 359612

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<25		200	148		ug/L		74	43 - 160
Benzene	<1.0		50.0	48.8		ug/L		98	56 - 142
Bromoform	<5.0		50.0	38.0		ug/L		76	50 - 140
Bromomethane	<1.0	F1	50.0	71.6		ug/L		143	10 - 160
2-Butanone (MEK)	<25		200	191		ug/L		96	55 - 150
Carbon disulfide	<1.0		50.0	41.2		ug/L		82	48 - 152
Carbon tetrachloride	<1.0		50.0	48.4		ug/L		97	55 - 145
Chlorobenzene	<1.0		50.0	46.9		ug/L		94	64 - 130

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

Lab Sample ID: 680-140434-1 MS
Matrix: Water
Analysis Batch: 359612

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	<1.0		50.0	42.1		ug/L		84	56 - 143
Chloroethane	<1.0		50.0	47.7		ug/L		95	50 - 151
Chloroform	<1.0		50.0	46.8		ug/L		94	60 - 141
Chloromethane	<1.0		50.0	40.3		ug/L		81	49 - 148
cis-1,2-Dichloroethene	64		50.0	113		ug/L		99	59 - 143
cis-1,3-Dichloropropene	<5.0		50.0	43.8		ug/L		88	57 - 140
Dichlorobromomethane	<1.0		50.0	42.7		ug/L		85	59 - 143
1,1-Dichloroethane	<1.0		50.0	45.0		ug/L		90	61 - 144
1,2-Dichloroethane	<1.0		50.0	43.6		ug/L		87	60 - 141
1,1-Dichloroethene	<1.0		50.0	52.2		ug/L		104	54 - 147
1,2-Dichloropropane	<1.0		50.0	44.8		ug/L		90	66 - 137
Ethylbenzene	<1.0		50.0	45.4		ug/L		91	58 - 131
2-Hexanone	<25		200	142		ug/L		71	65 - 140
Methylene Chloride	<5.0		50.0	46.7		ug/L		93	60 - 146
4-Methyl-2-pentanone (MIBK)	<25		200	158		ug/L		79	63 - 146
Styrene	<1.0		50.0	45.9		ug/L		92	58 - 131
1,1,2,2-Tetrachloroethane	<1.0		50.0	42.3		ug/L		85	66 - 135
Tetrachloroethene	53		50.0	99.1		ug/L		92	52 - 133
Toluene	<1.0		50.0	45.1		ug/L		90	65 - 130
trans-1,2-Dichloroethene	<1.0		50.0	51.2		ug/L		101	61 - 143
trans-1,3-Dichloropropene	<5.0		50.0	39.4		ug/L		79	53 - 133
1,1,1-Trichloroethane	<1.0		50.0	48.0		ug/L		96	57 - 142
1,1,2-Trichloroethane	<5.0		50.0	42.4		ug/L		85	66 - 131
Trichloroethene	12		50.0	66.2		ug/L		108	64 - 136
Vinyl chloride	<1.0		50.0	46.8		ug/L		94	46 - 152
Xylenes, Total	<10		100	89.5		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*67 - 134*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 680-140434-1 MSD
Matrix: Water
Analysis Batch: 359612

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<25		200	161		ug/L		81	43 - 160	9	30
Benzene	<1.0		50.0	51.8		ug/L		104	56 - 142	6	30
Bromoform	<5.0		50.0	41.8		ug/L		84	50 - 140	10	30
Bromomethane	<1.0	F1	50.0	90.8	F1	ug/L		182	10 - 160	24	50
2-Butanone (MEK)	<25		200	209		ug/L		104	55 - 150	9	30
Carbon disulfide	<1.0		50.0	44.3		ug/L		89	48 - 152	7	30
Carbon tetrachloride	<1.0		50.0	51.9		ug/L		104	55 - 145	7	30
Chlorobenzene	<1.0		50.0	50.3		ug/L		101	64 - 130	7	30
Chlorodibromomethane	<1.0		50.0	44.8		ug/L		90	56 - 143	6	30
Chloroethane	<1.0		50.0	54.1		ug/L		108	50 - 151	13	30
Chloroform	<1.0		50.0	49.8		ug/L		100	60 - 141	6	30
Chloromethane	<1.0		50.0	46.0		ug/L		92	49 - 148	13	31

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

Lab Sample ID: 680-140434-1 MSD
Matrix: Water
Analysis Batch: 359612

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	64		50.0	116		ug/L		103	59 - 143	2	30
cis-1,3-Dichloropropene	<5.0		50.0	47.3		ug/L		95	57 - 140	8	30
Dichlorobromomethane	<1.0		50.0	45.3		ug/L		91	59 - 143	6	30
1,1-Dichloroethane	<1.0		50.0	48.3		ug/L		97	61 - 144	7	30
1,2-Dichloroethane	<1.0		50.0	45.9		ug/L		92	60 - 141	5	30
1,1-Dichloroethene	<1.0		50.0	55.4		ug/L		111	54 - 147	6	30
1,2-Dichloropropane	<1.0		50.0	47.6		ug/L		95	66 - 137	6	30
Ethylbenzene	<1.0		50.0	47.9		ug/L		96	58 - 131	5	30
2-Hexanone	<25		200	155		ug/L		78	65 - 140	9	30
Methylene Chloride	<5.0		50.0	50.8		ug/L		102	60 - 146	9	32
4-Methyl-2-pentanone (MIBK)	<25		200	171		ug/L		86	63 - 146	8	30
Styrene	<1.0		50.0	48.6		ug/L		97	58 - 131	6	30
1,1,2,2-Tetrachloroethane	<1.0		50.0	45.6		ug/L		91	66 - 135	8	30
Tetrachloroethene	53		50.0	101		ug/L		95	52 - 133	2	30
Toluene	<1.0		50.0	48.2		ug/L		96	65 - 130	7	30
trans-1,2-Dichloroethene	<1.0		50.0	54.0		ug/L		106	61 - 143	5	30
trans-1,3-Dichloropropene	<5.0		50.0	41.0		ug/L		82	53 - 133	4	30
1,1,1-Trichloroethane	<1.0		50.0	51.0		ug/L		102	57 - 142	6	30
1,1,2-Trichloroethane	<5.0		50.0	45.7		ug/L		91	66 - 131	7	30
Trichloroethene	12		50.0	69.6		ug/L		114	64 - 136	5	30
Vinyl chloride	<1.0		50.0	52.7		ug/L		105	46 - 152	12	30
Xylenes, Total	<10		100	95.1		ug/L		95	59 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 134*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: MB 400-359751/4
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 09:06	1
Benzene	<1.0		1.0		ug/L			07/08/17 09:06	1
Bromoform	<5.0		5.0		ug/L			07/08/17 09:06	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 09:06	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 09:06	1
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 09:06	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 09:06	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 09:06	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 09:06	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
Chloroform	<1.0		1.0		ug/L			07/08/17 09:06	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 09:06	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 09:06	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1

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

Lab Sample ID: MB 400-359751/4
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 09:06	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 09:06	1
2-Hexanone	<25		25		ug/L			07/08/17 09:06	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 09:06	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 09:06	1
Styrene	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
Toluene	<1.0		1.0		ug/L			07/08/17 09:06	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 09:06	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 09:06	1
Trichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 09:06	1
Xylenes, Total	<10		10		ug/L			07/08/17 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/08/17 09:06*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/08/17 09:06*	*1*

Lab Sample ID: LCS 400-359751/1002
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	165		ug/L		82	43 - 160
Benzene	50.0	51.6		ug/L		103	70 - 130
Bromoform	50.0	39.9		ug/L		80	57 - 140
Bromomethane	50.0	65.3		ug/L		131	10 - 160
2-Butanone (MEK)	200	201		ug/L		101	61 - 145
Carbon disulfide	50.0	43.5		ug/L		87	61 - 137
Carbon tetrachloride	50.0	50.9		ug/L		102	61 - 137
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130
Chlorodibromomethane	50.0	44.0		ug/L		88	67 - 135
Chloroethane	50.0	48.9		ug/L		98	55 - 141
Chloroform	50.0	49.5		ug/L		99	69 - 130
Chloromethane	50.0	40.8		ug/L		82	58 - 137
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	68 - 130
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	69 - 132
Dichlorobromomethane	50.0	45.7		ug/L		91	67 - 133
1,1-Dichloroethane	50.0	47.1		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	46.8		ug/L		94	69 - 130
1,1-Dichloroethene	50.0	54.2		ug/L		108	63 - 134
1,2-Dichloropropane	50.0	47.4		ug/L		95	70 - 130
Ethylbenzene	50.0	47.0		ug/L		94	70 - 130

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

Lab Sample ID: LCS 400-359751/1002
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	200	151		ug/L		75	65 - 137
Methylene Chloride	50.0	50.4		ug/L		101	66 - 135
4-Methyl-2-pentanone (MIBK)	200	171		ug/L		86	69 - 138
Styrene	50.0	47.7		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 131
Tetrachloroethene	50.0	46.7		ug/L		93	65 - 130
Toluene	50.0	46.9		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	40.5		ug/L		81	63 - 130
1,1,1-Trichloroethane	50.0	50.2		ug/L		100	68 - 130
1,1,2-Trichloroethane	50.0	45.1		ug/L		90	70 - 130
Trichloroethene	50.0	55.6		ug/L		111	70 - 130
Vinyl chloride	50.0	47.3		ug/L		95	59 - 136
Xylenes, Total	100	91.8		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 134*
Toluene-d8 (Surr)	*92*		*80 - 120*

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

GC/MS VOA

Analysis Batch: 359612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140434-1	MW-13B	Total/NA	Water	8260B	
680-140434-2	MW-13A	Total/NA	Water	8260B	
680-140434-3	MW-19D	Total/NA	Water	8260B	
680-140434-6	MW-16B	Total/NA	Water	8260B	
680-140434-7	MW-16C	Total/NA	Water	8260B	
680-140434-8	MW-16A	Total/NA	Water	8260B	
680-140434-10	MW-15A	Total/NA	Water	8260B	
680-140434-11	MW-15B	Total/NA	Water	8260B	
680-140434-12	DUP-1	Total/NA	Water	8260B	
680-140434-13	EB-1	Total/NA	Water	8260B	
680-140434-14	MW-16A-LF	Total/NA	Water	8260B	
680-140434-15	MW-16B-LF	Total/NA	Water	8260B	
680-140434-16	OF-1	Total/NA	Water	8260B	
680-140434-17	SS-1	Total/NA	Water	8260B	
680-140434-18	SS-2	Total/NA	Water	8260B	
680-140434-19	SS-3	Total/NA	Water	8260B	
680-140434-20	TRIP BLANK	Total/NA	Water	8260B	
MB 400-359612/4	Method Blank	Total/NA	Water	8260B	
LCS 400-359612/1002	Lab Control Sample	Total/NA	Water	8260B	
680-140434-1 MS	MW-13B	Total/NA	Water	8260B	
680-140434-1 MSD	MW-13B	Total/NA	Water	8260B	

Analysis Batch: 359751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140434-4	MW-19C	Total/NA	Water	8260B	
680-140434-5	MW-19B	Total/NA	Water	8260B	
680-140434-9	MW-20C	Total/NA	Water	8260B	
MB 400-359751/4	Method Blank	Total/NA	Water	8260B	
LCS 400-359751/1002	Lab Control Sample	Total/NA	Water	8260B	

Client Sample ID: MW-13B — **Lab Sample ID: 680-140434-1**
Date Collected: 06/26/17 12:47 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 13:24	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-13A — **Lab Sample ID: 680-140434-2**
Date Collected: 06/26/17 12:53 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 15:03	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-19D — **Lab Sample ID: 680-140434-3**
Date Collected: 06/26/17 13:53 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	359612	07/07/17 19:08	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-19C — **Lab Sample ID: 680-140434-4**
Date Collected: 06/26/17 13:48 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359751	07/08/17 16:30	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-19B — **Lab Sample ID: 680-140434-5**
Date Collected: 06/26/17 13:40 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359751	07/08/17 16:55	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-16B — **Lab Sample ID: 680-140434-6**
Date Collected: 06/26/17 14:25 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	359612	07/07/17 20:47	RS	TAL PEN
	Instrument ID: CH_WASP									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: MW-16C
Lab Sample ID: 680-140434-7
Date Collected: 06/26/17 14:20
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	359612	07/07/17 21:11	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-16A
Lab Sample ID: 680-140434-8
Date Collected: 06/26/17 14:22
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	359612	07/07/17 21:36	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-20C
Lab Sample ID: 680-140434-9
Date Collected: 06/26/17 15:00
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359751	07/08/17 17:19	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-15A
Lab Sample ID: 680-140434-10
Date Collected: 06/26/17 16:10
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 15:27	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-15B
Lab Sample ID: 680-140434-11
Date Collected: 06/26/17 16:15
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 15:52	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: DUP-1
Lab Sample ID: 680-140434-12
Date Collected: 06/26/17 16:20
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 16:16	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: EB-1 — **Lab Sample ID: 680-140434-13**
Date Collected: 06/27/17 09:25 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 16:41	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-16A-LF — **Lab Sample ID: 680-140434-14**
Date Collected: 06/27/17 11:20 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	359612	07/07/17 22:01	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-16B-LF — **Lab Sample ID: 680-140434-15**
Date Collected: 06/27/17 10:25 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	359612	07/07/17 22:25	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: OF-1 — **Lab Sample ID: 680-140434-16**
Date Collected: 06/27/17 11:40 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 17:05	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: SS-1 — **Lab Sample ID: 680-140434-17**
Date Collected: 06/27/17 11:45 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 17:30	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: SS-2 — **Lab Sample ID: 680-140434-18**
Date Collected: 06/27/17 11:50 — **Matrix: Water**
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 17:55	RS	TAL PEN
	Instrument ID: CH_WASP									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Client Sample ID: SS-3

Lab Sample ID: 680-140434-19

Date Collected: 06/27/17 12:14
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 18:19	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-140434-20

Date Collected: 06/27/17 13:00
Matrix: Water
Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359612	07/07/17 18:44	RS	TAL PEN
	Instrument ID: CH_WASP									

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

SAVANNAH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address	Project/PO Number
EHS Support LLC **228 4th Ave** **Decatur, GA 30030**	**Project: Ashland Alterman (Jonesboro)** **Job Description: 062017** **Job #: 00342 2017-400**
Project Manager: **Kris Spikes, EHS Support** Sampler: Kris Spikes and Mark Smith Note	Phone Number: **(678) 522-6050** Fax Number:

680-140434 Chain of Custody

Sample Description	Sample Matrix	Container Type	# of Cont	Date	Time	Preservation	Analysis Required: 8260B - VOCs	Special Instructions
MW-13B	W	40 ML VOA	2	26-Jun	1247	HCL	X	
MW-13A	W	40 ML VOA	3	26-Jun	1253	HCL	X	
MW-19D	W	40 ML VOA	3	26-Jun	1353	HCL	X	
MW-19C	W	40 ML VOA	3	26-Jun	1348	HCL	X	
MW-19B	W	40 ML VOA	3	26-Jun	1340	HCL	X	
MW-16B	W	40 ML VOA	3	26-Jun	1425	HCL	X	
MW-16C	W	40 ML VOA	3	26-Jun	1420	HCL	X	*Report J Flags*
MW-16A	W	40 ML VOA	3	26-Jun	1422	HCL	X	
MW-20C	W	40 ML VOA	3	26-Jun	1500	HCL	X	
MW-15A	W	40 ML VOA	3	26-Jun	1610	HCL	X	
MW-15B	W	40 ML VOA	3	26-Jun	1615	HCL	X	
DUP-1	W	40 ML VOA	3	26-Jun	1620	HCL	X	
EB-1	W	40 ML VOA	3	27-Jun	925	HCL	X	
MW-16A-LF	W	40 ML VOA	3	27-Jun	1120	HCL	X	
MW-16B-LF	W	40 ML VOA	3	27-Jun	1025	HCL	X	
OF-1	W	40 ML VOA	3	27-Jun	1140	HCL	X	
SS-1	W	40 ML VOA	3	27-Jun	1145	HCL	X	
SS-2	W	40 ML VOA	3	27-Jun	1150	HCL	X	
SS-3	W	40 ML VOA	3	27-Jun	1214	HCL	X	
TRIP BLANK	W	40 ML VOA	3	14-Jun	1300	HCL	X	

Relinquished By: Kris Spikes	Date /Time: 06/28/17 1100	Received by:	Date /Time: 6/28/17 1632
Relinquished By:	Date /Time: 6/28/17 1415	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by:	Date /Time: 6-29-17 700

Turnaround Time: (Check)
Same Day ____ 72 Hours
24 Hours ____ 5 Days
48 Hours ____ **Normal: ALL**

Sample Integrity: (Check)
Intact ____ On Ice 4.7/4.0

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-483431.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Georgia		Job #: 680-140434-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/10/2017			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Ashland Alterman (Jonesboro)	Project #: 68002361			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) TCL Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-13B (680-140434-1)	6/26/17	12:47 Eastern		Water			X	2	condensed dilution format; MCL for VC = 2ug/L
MW-13A (680-140434-2)	6/26/17	12:53 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-19D (680-140434-3)	6/26/17	13:53 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-19C (680-140434-4)	6/26/17	13:48 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-19B (680-140434-5)	6/26/17	13:40 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-16B (680-140434-6)	6/26/17	14:25 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-16C (680-140434-7)	6/26/17	14:20 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-16A (680-140434-8)	6/26/17	14:22 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-20C (680-140434-9)	6/26/17	15:00 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jessee Edwards	6/17 1700	BSV		7-6-17 0852	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0C, 0.0C, IR7 RF

7/12/2017

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-483431.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Georgia		Job #: 680-140434-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/10/2017			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Ashland Alterman (Jonesboro)	Project #: 68002361			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) TCL Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15A (680-140434-10)	6/26/17	16:10 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-15B (680-140434-11)	6/26/17	16:15 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
DUP-1 (680-140434-12)	6/26/17	16:20 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
EB-1 (680-140434-13)	6/27/17	09:25 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-16A-LF (680-140434-14)	6/27/17	11:20 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-16B-LF (680-140434-15)	6/27/17	10:25 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
OF-1 (680-140434-16)	6/27/17	11:40 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
SS-1 (680-140434-17)	6/27/17	11:45 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
SS-2 (680-140434-18)	6/27/17	11:50 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
7/12/2017	[signature]	7/5/17 1700	TAS	[signature]	7-6-17 0852	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-483431.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Georgia		Job #: 680-140434-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/10/2017			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Ashland Alterman (Jonesboro)	Project #: 68002361			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) TCL Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-3 (680-140434-19)	6/27/17	12:14 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
TRIP BLANK (680-140434-20)	6/27/17	13:00 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
7/12/2017	Jessica Edwards	7/5/17 1700	TASAV	BB	7-6-17 0852	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Page 43 of 47

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-483431.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Georgia		Job #: 680-140434-2
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/10/2017			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Ashland Alterman (Jonesboro)	Project #: 68002361			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) TCL Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15C (680-140434-21)	6/26/17	15:35 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-24C (680-140434-22)	6/26/17	15:45 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jessica Edwards	7/5/17 17:00	TAL SAV			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/6/17 08:52	TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0 IR-7 R6 IR-7 R6

7/12/2017

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-140434-1

Login Number: 140434

List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-140434-1

Login Number: 140434
List Number: 2
Creator: Edwards, Robin S

List Source: TestAmerica Pensacola
List Creation: 07/06/17 11:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°c ir-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-17 *

Laboratory: TestAmerica Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	N/A	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-140434-2
Client Project/Site: Ashland Alterman (Jonesboro)

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Authorized for release by:
7/12/2017 11:45:08 AM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

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Job ID: 680-140434-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 680-140434-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 06/29/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-15C (680-140434-21) and MW-24C (680-140434-22) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/08/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-140434-21	MW-15C	Water	06/26/17 15:35	06/29/17 07:00
680-140434-22	MW-24C	Water	06/26/17 15:45	06/29/17 07:00

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Client Sample ID: MW-15C — Lab Sample ID: 680-140434-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	4.5		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-24C — Lab Sample ID: 680-140434-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	26		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Client Sample ID: MW-15C

Lab Sample ID: 680-140434-21

Date Collected: 06/26/17 15:35
Matrix: Water
Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 15:41	1
Benzene	<1.0		1.0		ug/L			07/08/17 15:41	1
Bromoform	<5.0		5.0		ug/L			07/08/17 15:41	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 15:41	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 15:41	1
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 15:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 15:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 15:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 15:41	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 15:41	1
Chloroform	**2.9**		1.0		ug/L			07/08/17 15:41	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 15:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 15:41	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 15:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 15:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 15:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 15:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 15:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 15:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 15:41	1
2-Hexanone	<25		25		ug/L			07/08/17 15:41	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 15:41	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 15:41	1
Styrene	<1.0		1.0		ug/L			07/08/17 15:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 15:41	1
Tetrachloroethene	**4.5**		1.0		ug/L			07/08/17 15:41	1
Toluene	<1.0		1.0		ug/L			07/08/17 15:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 15:41	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 15:41	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 15:41	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 15:41	1
Trichloroethene	<1.0		1.0		ug/L			07/08/17 15:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 15:41	1
Xylenes, Total	<10		10		ug/L			07/08/17 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*67 - 134*		*07/08/17 15:41*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*07/08/17 15:41*	*1*

Client Sample ID: MW-24C

Lab Sample ID: 680-140434-22

Date Collected: 06/26/17 15:45
Matrix: Water
Date Received: 06/29/17 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 16:06	1
Benzene	<1.0		1.0		ug/L			07/08/17 16:06	1
Bromoform	<5.0		5.0		ug/L			07/08/17 16:06	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 16:06	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 16:06	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Client Sample ID: MW-24C
Date Collected: 06/26/17 15:45
Date Received: 06/29/17 07:00

Lab Sample ID: 680-140434-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 16:06	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 16:06	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 16:06	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 16:06	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 16:06	1
Chloroform	<1.0		1.0		ug/L			07/08/17 16:06	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 16:06	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:06	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 16:06	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 16:06	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 16:06	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 16:06	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:06	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 16:06	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 16:06	1
2-Hexanone	<25		25		ug/L			07/08/17 16:06	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 16:06	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 16:06	1
Styrene	<1.0		1.0		ug/L			07/08/17 16:06	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 16:06	1
Tetrachloroethene	**26**		1.0		ug/L			07/08/17 16:06	1
Toluene	<1.0		1.0		ug/L			07/08/17 16:06	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 16:06	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 16:06	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 16:06	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 16:06	1
Trichloroethene	<1.0		1.0		ug/L			07/08/17 16:06	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 16:06	1
Xylenes, Total	<10		10		ug/L			07/08/17 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/08/17 16:06*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/08/17 16:06*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCE	TOL								
Lab Sample ID	Client Sample ID	(67-134)	(80-120)								
680-140434-21	MW-15C	90	92								
680-140434-22	MW-24C	89	94								
LCS 400-359751/1002	Lab Control Sample	87	92								
MB 400-359751/4	Method Blank	89	93								

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 400-359751/4
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/08/17 09:06	1
Benzene	<1.0		1.0		ug/L			07/08/17 09:06	1
Bromoform	<5.0		5.0		ug/L			07/08/17 09:06	1
Bromomethane	<1.0		1.0		ug/L			07/08/17 09:06	1
2-Butanone (MEK)	<25		25		ug/L			07/08/17 09:06	1
Carbon disulfide	<1.0		1.0		ug/L			07/08/17 09:06	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/17 09:06	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/17 09:06	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/17 09:06	1
Chloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
Chloroform	<1.0		1.0		ug/L			07/08/17 09:06	1
Chloromethane	<1.0		1.0		ug/L			07/08/17 09:06	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 09:06	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/17 09:06	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/17 09:06	1
2-Hexanone	<25		25		ug/L			07/08/17 09:06	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/17 09:06	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			07/08/17 09:06	1
Styrene	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
Toluene	<1.0		1.0		ug/L			07/08/17 09:06	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			07/08/17 09:06	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/17 09:06	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			07/08/17 09:06	1
Trichloroethene	<1.0		1.0		ug/L			07/08/17 09:06	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/17 09:06	1
Xylenes, Total	<10		10		ug/L			07/08/17 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 134*		*07/08/17 09:06*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/08/17 09:06*	*1*

Lab Sample ID: LCS 400-359751/1002
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	165		ug/L		82	43 - 160
Benzene	50.0	51.6		ug/L		103	70 - 130
Bromoform	50.0	39.9		ug/L		80	57 - 140
Bromomethane	50.0	65.3		ug/L		131	10 - 160

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

Lab Sample ID: LCS 400-359751/1002
Matrix: Water
Analysis Batch: 359751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	200	201		ug/L		101	61 - 145
Carbon disulfide	50.0	43.5		ug/L		87	61 - 137
Carbon tetrachloride	50.0	50.9		ug/L		102	61 - 137
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130
Chlorodibromomethane	50.0	44.0		ug/L		88	67 - 135
Chloroethane	50.0	48.9		ug/L		98	55 - 141
Chloroform	50.0	49.5		ug/L		99	69 - 130
Chloromethane	50.0	40.8		ug/L		82	58 - 137
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	68 - 130
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	69 - 132
Dichlorobromomethane	50.0	45.7		ug/L		91	67 - 133
1,1-Dichloroethane	50.0	47.1		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	46.8		ug/L		94	69 - 130
1,1-Dichloroethene	50.0	54.2		ug/L		108	63 - 134
1,2-Dichloropropane	50.0	47.4		ug/L		95	70 - 130
Ethylbenzene	50.0	47.0		ug/L		94	70 - 130
2-Hexanone	200	151		ug/L		75	65 - 137
Methylene Chloride	50.0	50.4		ug/L		101	66 - 135
4-Methyl-2-pentanone (MIBK)	200	171		ug/L		86	69 - 138
Styrene	50.0	47.7		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 131
Tetrachloroethene	50.0	46.7		ug/L		93	65 - 130
Toluene	50.0	46.9		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	40.5		ug/L		81	63 - 130
1,1,1-Trichloroethane	50.0	50.2		ug/L		100	68 - 130
1,1,2-Trichloroethane	50.0	45.1		ug/L		90	70 - 130
Trichloroethene	50.0	55.6		ug/L		111	70 - 130
Vinyl chloride	50.0	47.3		ug/L		95	59 - 136
Xylenes, Total	100	91.8		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 134*
Toluene-d8 (Surr)	*92*		*80 - 120*

QC Association Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

GC/MS VOA

Analysis Batch: 359751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140434-21	MW-15C	Total/NA	Water	8260B	
680-140434-22	MW-24C	Total/NA	Water	8260B	
MB 400-359751/4	Method Blank	Total/NA	Water	8260B	
LCS 400-359751/1002	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Client Sample ID: MW-15C

Lab Sample ID: 680-140434-21

Date Collected: 06/26/17 15:35

Matrix: Water

Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359751	07/08/17 15:41	RS	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-24C

Lab Sample ID: 680-140434-22

Date Collected: 06/26/17 15:45

Matrix: Water

Date Received: 06/29/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	359751	07/08/17 16:06	RS	TAL PEN
	Instrument ID: CH_WASP									

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

SAVANNAH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2852 Alton Ave., Irvine CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address:
EHS Support LLC
228 4th Ave
Decatur, GA 30030

Project/PO Number:
Project: Ashland Alterman (Jonesboro)
Job Description: 062017
Job #: 00342 2017-400

Project Manager:
Kris Spikes, EHS Support

Phone Number:
(678) 522-6050

Sampler: Kris Spikes and Mark Smith

Fax Number:

Note:

Sample Description	Sample Matrix	Container Type	# of Cont	Date	Time	Preservation	Analysis Required: 8260B - VOCs	Special Instructions
MW-15C	W	40 ML VOA	3	26-Jun	1535	HCL	X	
MW-24C	W	40 ML VOA	3	26-Jun	1545	HCL	X	
								HOLD SAMPLES
								Report J Flags

Relinquished By: Kris Spikes Date/Time: 06/28/17 1100
Received by: Date/Time: 6/28/17 1100

Relinquished By: Date/Time: 6/28/17 14:46
Received by: Date/Time:

Relinquished By: Date/Time:
Received in Lab by: Date/Time: 6-29-17 700

Turnaround Time: (Check)
Same Day _____ 72 Hours
24 Hours _____ 5 Days
48 Hours _____ **Normal: ALL**

Sample Integrity: (Check)
Intact _____ On Ice 4.7/4.0

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-483431.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Georgia		Job #: 680-140434-2
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/10/2017			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Ashland Alterman (Jonesboro)	Project #: 68002361			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) TCL Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15C (680-140434-21)	6/26/17	15:35 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L
MW-24C (680-140434-22)	6/26/17	15:45 Eastern		Water			X	3	condensed dilution format; MCL for VC = 2ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jessica Edwards	7/5/17 17:00	TAL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/6/17 08:52	TA

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.0 IR-7 R6

7/12/2017

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-140434-2
SDG Number:

Login Number: 140434
List Number: 1
Creator: Flanagan, Naomi V

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-140434-2
SDG Number:

Login Number: 140434
List Number: 2
Creator: Edwards, Robin S

List Source: TestAmerica Pensacola
List Creation: 07/06/17 11:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°c ir-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-140434-2

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-17 *

Laboratory: TestAmerica Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	N/A	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.