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Volunteer Remediation Program Progress Report 2

C&D Technologies, Inc.
Conyers, Rockdale County, Georgia

C&D Technologies, Inc.
1835 Rockdale Industrial Blvd.
Conyers, Georgia

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CERTIFICATION

Volunteer Remediation Program Progress Report 2

C&D Technologies, 1835 Rockdale Industrial Blvd, Conyers, Georgia

January 2017

HSI#10734

PREPARED FOR

C&D Technologies

1400 Union Meeting Road

Blue Bell, Pennsylvania 19422-0858

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrogeology and related fields, as demonstrated by state registration and completion of accredited university courses, that enabled me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

State of Georgia Professional Geologist No. 1966

Craig A. Bernhoft January 19, 2017

Signature Date

Craig A. Bernhoft, P.G.

AECOM

Georgia Environmental Protection Division
Land Protection Branch
Response and Remediation Program
Response Development Units 1 – 3

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Name of Document:	Volunteer Remediation Program Progress Report 2
Date of Document:	January 19, 2017
Site Name:	C&D Technologies, 1835 Rockdale Industrial Blvd, Conyers, Georgia
Site ID Number:	HSI#10734

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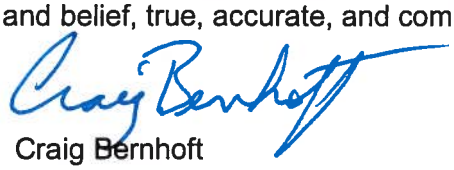
Signature: 

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1.0 Introduction

The C&D Technologies, Inc. (C&D) site is located at 1835 Rockdale Industrial Boulevard in Conyers, Rockdale County, Georgia **(Figure 1)**. The C&D Facility has been listed on the Georgia Hazardous Site Inventory (HSI) Number 10734 as a facility that has a known release in groundwater at levels exceeding the reportable quantity. Chlorinated volatile organic compounds (VOCs) trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-DCE), and lead have been detected in groundwater samples at concentrations exceeding the Georgia Hazardous Site Response Act (HSRA) Type 1/3 Risk Reduction Standards (RRS). C&D has performed groundwater remediation activities at the Facility since 2006.

C&D submitted a Voluntary Remediation Program (VRP) application in September 2015 to the Georgia Environmental Protection Division (GA EPD) that was approved by the GAEPD letter dated December 23, 2015. The first semi-annual progress report was submitted to the GA EPD in June 2016. This second semi-annual progress report summarizes the activities that have taken place since June 2016, including the results of the semiannual groundwater monitoring event conducted in September 2016.

2.0 Site Background

The C&D Facility is no longer active and the building structures have been removed. C&D previously manufactured lead-acid batteries for over 35 years at the site. Manufacturing operations ended in 2007. The facility is located on 8.27 acres in a commercial/industrial area. A site map of the Facility and nearby properties is presented on **Figure 2**.

2.1 Historic Activities

C&D has conducted several assessments of impacted groundwater at the Site. Previous groundwater sampling data indicate that TCE and PCE concentrations exceeding the Georgia HSRA Type 1/3 RRS (5 µg/L) extend north and northeast in the apparent direction of the groundwater flow from the high concentration area (MW-5) located on the C&D Facility onto the central portions of the Pattillo and Latex Properties. Analytical data of groundwater samples collected from monitoring wells installed along the east and northeastern Pattillo Property boundary indicate TCE and PCE concentrations below the Type 1/3 RRS. TCE concentrations in groundwater samples collected from the northernmost monitoring well installed on the Pattillo Property are slightly above the Type 1/3 RRS. PCE concentrations from this same location are below the Type 1/3 RRS.

Based upon a groundwater remediation design prepared by RMT (2006), chemicals were injected to elevate pH, promote lead precipitation, and support reductive dechlorination within the source area, and to support enhanced natural degradation processes within the downgradient plume. Results of the pilot testing indicated that while the bioremediation and/or enhanced natural degradation processes could be accelerated in the downgradient plume (INJ-2), subsurface distribution challenges in the source area required additional testing.

In 2007, monitoring wells were installed on the Robert Pattillo Property by Dobbs Environmental that indicated groundwater beneath the Pattillo Property may have been impacted by TCE and PCE. Additional groundwater investigation sampling in October 2008 indicate PCE-, TCE-, and/or cis-DCE-impacted groundwater is present in the overburden and the shallow bedrock, but not present in the deep monitoring well (MW-14, 100 feet bgs) located within the plume.

Groundwater delineation activities conducted in 2009 and 2010 included installing and sampling additional wells on the C&D property, and the Pattillo, Pittman Construction, Latex, and Frey-Moss Structures (FMS) Properties **(Figure 2)**. These investigation activities focused primarily on the source area, currently defined as MW-5 and MW-5D.

A Phase I in-situ chemical reduction (ISCR) field-scale injection event on the source area was conducted in late January 2012. Performance monitoring events were conducted and the findings indicate that although the ISCR influenced some portions of the treatment zone, full scale application by direct injection in the source zone would not be effective due to geochemical complexities and difficult lithology. The difficulty of injecting via rotary drilling and/or direct push drilling suggests source-zone treatment similar to the ISCR injection is not a technically feasible approach.

The status was further discussed in a project status review meeting held at GAEPD on June 29, 2015. During the meeting it was agreed that the application should be submitted based on the subsurface conditions and potential technical impracticability of achieving the HSRA Type 1/3

RRS. The C&D facility was accepted into the Georgia VRP in December 2015. The initial semi-annual groundwater event was completed in February and March 2016. Results of the semi-annual groundwater event indicated:

- TCE concentrations detected in some of the groundwater samples collected from the C&D Facility and Pattillo and Latex Properties were above the Georgia HSRA Type 1/3 RRS of 5 µg/L;
- PCE exceeded the Type 1/3 RRS of 5 ug/L on the C&D Facility, Pittman, and Frey-Moss properties;
- Lead concentrations exceeding the Type 1/3 RRS (0.015 mg/L) were detected in 5 of the wells sampled (CD-01, MW-5, MW-5D, MW-19, MW-20);
- TCE and PCE concentrations decreased in the source area (MW-5 and MW-5D) since sampling events conducted prior to 2016; however, concentrations of TCE and PCE increased slightly in down gradient monitoring wells on the Latex property; and
- The concentration isopleth boundary decreased along the eastern perimeter wells on the Pattillo Property.

AECOM recommended continuation of semi-annual groundwater sampling and proposed collecting groundwater samples from select wells during the second 2016 sampling event. Wells located within the highest TCE concentration area (CD-01, MW-2, MW-3, MW-5, MW-5D, MW-8 SBR, MW-17, MW-19, MW-20, MW-24 SBR, MW-29 SBR, MW-30 SBR, MW-36, MW-37, MW-38 SBR, and OBS-8) were selected for sampling. The second 2016 semi-annual event was completed in September 2016.

2.2 Site Geology and Hydrogeology

The site is located in the Piedmont physiographic province. The Facility is underlain by granite plutons and other metamorphic and igneous rocks that have been subject to geologic erosion and generally are deeply weathered. The weathering has resulted in a relatively thick layer of saprolite (unconsolidated, weathered rock) and soil beneath the ground surface. The area around the subject property is underlain by undifferentiated granitic gneiss. The depth to competent bedrock varies from less than one foot near the main former manufacturing building to greater than 90 feet to the north of the Facility.

Groundwater beneath the Facility is shallow, ranging from approximately 10 to 40 feet below ground surface (bgs) **(Table 1)**, and predominantly flows to the north-northeast **(Figure 3)**. Shallow groundwater occurs in an unconfined aquifer made up of potentially interconnected water bearing zones: a shallow zone of soil and weathered rock, and a deeper zone of fractured bedrock. These fractures contribute to the complexities of groundwater flow in the area.

Slug tests indicate that the hydraulic conductivity of the shallow water bearing unit varies between 10^{-3} and 10^{-5} cm/sec. The groundwater flow direction from the impacted suspected source area is generally to the north and northeast with a hydraulic gradient of 0.025 ft/ft (S&ME, 2008). A map showing the groundwater potentiometric surface contours and flow direction based upon groundwater elevations for the shallow aquifer during the September 2016 groundwater sampling event is included as **Figure 3.**

Aquifer tests have indicated that the shallow regolith and bedrock zones are hydraulically separated in the Conyers area based on the lack of interconnectivity of the deep bedrock system to the shallow water-table zone in the weathered regolith.

3.0 Semiannual Groundwater Monitoring

For the second 2016 semi-annual groundwater monitoring event 16 of the existing site-wide wells were targeted for groundwater sample collection. The sampling methodology and results for the sampling event are presented in the following subsections.

3.1 September 2016 Semiannual Groundwater Monitoring Event

Groundwater samples were collected on September 20 through September 22, 2016 from the groundwater wells located on the C&D property and surrounding properties (C&D-01, MW-2, MW-3, MW-5, MW-5D, MW-8 SBR, MW-17, MW-19, MW-20, MW-24 SBR, MW-29 SBR, MW-30 SBR, MW-36 SBR, MW-37 SBR, MW-38 SBR, and OBS-8). The groundwater monitoring well locations are depicted on **Figure 2**. The collected groundwater samples from the wells were analyzed for VOCs using United States Environmental Protection Agency (US EPA) Method 8260B and/or lead using US EPA Method 6020A. One duplicate sample was collected for quality assurance and quality control. Two matrix spike/matrix spike duplicates were collected. A trip blank was provided by the laboratory.

3.1.1 Groundwater Gauging and Sampling Protocol

Monitoring wells were gauged and sampled in general accordance with the US EPA Region 4 Field Branches Quality System and Technical Procedure. Each monitoring well was opened and allowed to equilibrate. Groundwater level measurements were using an electronic water level indicator. Groundwater elevations were recorded to the nearest 0.01 ft from the water table to the well's top of casing (TOC). The depth to water was subtracted from the well's TOC to calculate the groundwater elevation at each well.

AECOM was not able to collect groundwater level measurements from monitoring wells MW-1, MW-13, MW-16, MW-27 SBR, MW-11, C&D-02, injection well INJ-02, or observation well OBS-3 during this event. Monitoring wells MW-16 and MW-27 SBR are located on adjacent properties where AECOM has not been allowed to enter. Monitoring well MW-13 is located off site north of the property at a private residence. Nobody was at the residence during the sampling event to allow access onto the private property. Monitoring well MW-1, injection well INJ-02, and observation well OBS-3 could not be located due to dense vegetation during this event. As previously mentioned, the adjacent property area in the general known location of monitoring well C&D-02 appeared to be re-worked and after several unsuccessful attempts including using GPS, metal detectors, and probing rods, the well could not be located. Monitoring well MW-11 was also beneath a heavily overgrown area that could not be accessed during the sampling event.

Groundwater samples were collected from monitoring wells MW-8 SBR and MW-17 using a stainless steel bladder pump equipped with a disposable Teflon bladder and dedicated Teflon-lined low density polyethylene tubing. The bladder pump was placed in the middle of the screened interval and the groundwater was purged and sampled using the low flow/low purge method as outlined in Section 3.2.1 of the US EPA Region 4 Science and Ecosystem Support Division (SESD) Groundwater Sampling Operating Procedure dated March 6, 2013. Groundwater samples were collected from monitoring wells C&D-01, MW-2, MW-3, MW-5, MW-5D, MW-19, MW-20, MW-24, MW-29 SBR, MW-30, MW-36 SBR, MW-37 SBR, MW-38 SBR, and observation well OBS-8 using a peristaltic pump equipped with dedicated Teflon-line tubing. When the peristaltic pump was used for collection

of groundwater samples for VOC analysis, a reverse-flow technique was used for sample collection. When the 3 to 5 volume purge method and the low flow/low purge method could not be used because of slow recharge the well was purged dry and a groundwater sample was collected as soon as there was enough recharge water to collect a sample.

Water quality parameters including temperature, pH, conductivity, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity were recorded during groundwater purging activities. The water quality parameters were recorded in the field using a Horiba U-22 water quality meter and were recorded on the groundwater sampling logs at each monitoring well location. Refer to **Appendix A** for the groundwater sampling field logs.

3.1.2 Groundwater Sample Handling

The groundwater samples collected in new, laboratory provided, preserved 40-milliliter glass vials or 250-milliliter polyethylene containers. The sample containers for each well were handled using new, disposable Nitrile gloves. The samples were labeled and placed on wet ice in general accordance with chain-of-custody protocol prior to being picked up by a TestAmerica courier. The courier shipped the groundwater samples to TestAmerica in Nashville, Tennessee.

3.1.3 Ancillary Field Activities

Following sampling, the purge water was contained in two steel, 55-gallon drums for future disposal. Sampling equipment including the electronic water level meters were decontaminated prior to initial use and after being used at each well with a Liquinox and distilled water mixture and a distilled water rinse.

3.2 Groundwater Flow Direction

The depth to groundwater was measured during the September 2016 monitoring event as described in Section 3.1.3. The measurements were used to calculate the elevation of the water table at each monitoring well. Depth to groundwater measurements and corresponding groundwater elevations are presented for the September 2016 groundwater sampling event as well as previous events in **Table 1**. A groundwater potentiometric map using the September 2016 groundwater elevation data is presented in **Figure 3**. The apparent groundwater flow at the site is to the north-northeast and is consistent with previous measurements.

3.3 Analytical Results

Analytical data are summarized in **Table 2**. The data was compared with the Type 1/3 RRS. Historical concentrations are provided for comparison. The complete analytical report is included along with the chain-of-custody documentation in **Appendix B**. AECOM performed a quality review and the data validation report is included as **Appendix C**.

Laboratory analytical results indicated lead and TCE concentrations above the Georgia HSRA Type 1/3 RRS in the groundwater samples collected from monitoring wells MW-5 and MW-5D. Concentrations of TCE also exceeded the Type 1/3 RRS in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-8 SBR, MW-29 SBR, MW-36 SBR, MW-37 SBR, and MW-38 SBR; however, no metals concentrations were detected. Concentrations of lead were detected in the groundwater sample collected from monitoring well C&D-01. The lead concentrations exceeded the Type 1/3 RRS for lead (0.015 mg/L). The laboratory analytical results did not report other lead concentrations above the laboratory detection limit in the collected groundwater samples; however, other concentrations of VOCs were detected above the

laboratory detection limit in samples collected from wells within the estimated plume area (see **Figure 4**).

The highest concentrations of TCE/PCE are located at monitoring wells MW-5 and MW-5D and concentrations decrease in all directions away from the source area wells (MW-5 and MW-5D). As previously mentioned, monitoring wells on the Pittman Construction Property again were inaccessible and groundwater samples were not collected during this event. The extent of impacted groundwater north of the site will be further delineated when the property access in this direction is permitted. However historical TCE and PCE concentrations have been below laboratory reporting limits in samples collected from monitoring well MW-16 located on the Pittman Property and MW-13 located further toward the north. Refer to **Figure 4** for a TCE concentration isopleth map. The detected lead concentrations are presented in **Figure 5** along with the projected lead concentration isopleth map.

4.0 Summary and Future Groundwater Monitoring

The C&D Rockdale Industrial Blvd Facility was accepted into the Georgia Voluntary Remediation Program in December 2015. The facility has undergone two semiannual groundwater monitoring events since inception into the VRP. Site activities thus far include semiannual groundwater sampling events conducted in February/March 2016 and September 2016 . The summary of groundwater sampling activities indicates the following:

- TCE concentrations exceeding the Type 1/3 RRS (5 mg/L) have been detected in nine wells (MW-2, MW-3, MW-5, MW-5D, MW-8 SBR, MW-29, MW-36 SBR, MW-37 SBR, and MW-38 SBR).

- Lead concentrations exceeding the Type 1/3 RRS (0.015 mg/L) have been detected in 5 of the wells sampled (CD-01, MW-5, MW-5D, MW-19, MW-20).

- TCE and PCE concentrations have remained consistent with historical concentrations in the source area (MW-5 and MW-5D) and in down gradient monitoring wells on the Latex property since previous sampling events.

- The concentration isopleth boundary is unchanged from the previous sampling event.

Analytical data indicates the previously delineated plume remains consistent with previous interpretations and the TCE and PCE concentrations still decrease significantly as groundwater flows to the north away from the source area, as indicated by the TCE concentration isopleths shown on **Figure 4**.

As stated in the VRP schedule, the next groundwater monitoring at the site will take place in February 2017. However, based on the concentrations observed and the consistent data with previous events, C&D proposes to again sample the approved select wells within the highest TCE concentrations area (see **Figure 4**). Specifically this includes wells: MW-5, MW-5D, C&D-01, MW-17, MW-24, MW-29, MW-30, OBS-8, MW-19, MW-8 SBR, MW-2, MW-36 SBR, MW-37 SBR, and MW-38 SBR. C&D is pursuing options to obtain access MW-16 and MW-27 SBR on the property north of the Latex property. If permission to access the property is obtained prior to mobilizing, these wells will be included. Please refer to the sampling schedule provided in the Gantt chart included as **Appendix D.** A revised copy of the Additional Qualifying Properties form was completed to list the Robert Pattillo Properties, Inc.; the Frey-Moss Structures, Inc.; and the Latex Construction Company parcels. Edits were made to company information to match deed records. The updated form is provided in **Appendix E**.

Tables

Table 1
Groundwater Elevation Data

C&D Technologies
1835 Rockdale Industrial Boulevard
Conyers, Rockdale County, Georgia
HSI No. 10734

Monitor Well ID	TOC Elevation (ft msl)	October 13 & 14, 2008		February 23, 2009		6/16/2009		10/18/2010		1/19/2012		2/29/2016 & 3/1/2016		9/19/2016 & 9/20/2016	
		Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
MW-38 SBR	923.207	NM	NM	NM	NM	NM	NM	14.36	908.85	16.72	906.49	6.01	917.20	14.13	909.08
MW-37 SBR	927.71	NM	NM	NM	NM	NM	NM	16.18	911.53	18.71	909	6.66	921.05	15.55	912.16
MW-36 SBR	922.89	NM	NM	NM	NM	NM	NM	18.25	904.64	11.40	911.49	5.85	917.04	18.74	904.15
MW-35 SBR	905.61	NM	NM	NM	NM	8.63	896.98	15.30	890.31	15.52	890.09	8.79	896.82	15.35	890.26
MW-34 SBR	904.56	NM	NM	NM	NM	25.62	878.94	29.05	875.51	NM	NM	25.07	879.49	29.12	875.44
MW-33 SBR	926.88	NM	NM	NM	NM	21.28	905.60	12.11	914.77	NM	NM	9.93	916.95	17.07	909.81
MW-32 SBR	931.63	NM	NM	NM	NM	10.88	920.75	14.79	916.84	NM	NM	7.89	923.74	11.90	919.73
MW-30 SBR	926.99	NM	NM	NM	NM	5.14	921.85	6.41	920.58	NM	NM	3.77	923.22	6.10	920.89
MW-29 SBR	928.49	NM	NM	NM	NM	6.05	922.44	7.31	921.18	6.89	921.6	5.15	923.34	7.31	921.18
MW-28 DBR	884.8	NM	NM	NM	NM	4.18	880.62	5.95	878.85	8.67	876.13	5.92	878.88	8.44	876.36
MW-28 SBR	887.52	NM	NM	NM	NM	6.57	880.95	7.75	879.77	11.45	876.07	6.67	880.85	10.63	876.89
MW-27 SBR	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-26 SBR	913.8	NM	NM	NM	NM	13.11	900.69	17.15	896.65	17.34	896.46	8.62	905.18	17.30	896.50
MW-25 SBR	924.88	NM	NM	NM	NM	18.17	906.71	23.68	901.20	24.38	900.5	13.46	911.42	23.74	901.14
MW-24 SBR	929.32	NM	NM	6.33	922.99	4.85	924.47	6.62	922.70	6.48	922.84	3.17	926.15	5.70	923.62
MW-11 SBR	927.74	NM	NM	16.35	911.39	13.90	913.84	18.55	909.19	20.38	907.36	8.68	919.06	18.54	909.20
MW-23 SBR	927	NM	NM	23.60	903.40	17.47	909.53	26.76	900.24	25.12	901.88	11.98	915.02	23.75	903.25
MW-22 SBR	910.14	NM	NM	17.61	892.53	9.97	900.17	17.32	892.82	19.85	890.29	6.40	903.74	17.75	892.39
MW-21 DBR	908.8	NM	NM	19.56	889.24	13.16	895.64	19.51	889.29	22.33	886.47	9.33	899.47	NM	NM
MW-7 SBR	915.14	NM	NM	25.02	890.12	17.51	897.63	24.51	890.63	28.10	887.04	13.50	901.64	25.05	890.09
MW-8 SBR	913.58	NM	NM	14.21	899.37	11.48	902.10	14.43	899.15	14.98	898.6	9.30	904.28	15.95	897.63
MW-9 SBR	921.5	NM	NM	10.15	911.35	11.61	909.89	13.69	907.81	13.83	907.67	10.07	911.43	14.06	907.44
C&D-01	933.27	Dry	Dry	7.91	925.36	6.31	926.96	9.15	924.12	6.44	926.83	2.26	931.01	7.90	925.37
C&D-02	931.17	NM	NM	NM	NM	NM	NM	6.05	925.12	3.72	927.45	NM	NM	NM	NM
C&D-03	933.39	10.81	922.58	8.72	924.67	6.83	926.56	10.12	923.27	8.43	924.96	2.52	930.87	8.04	925.35
MW-01	916.4	NM	NM	13.74	902.66	8.94	907.46	14.12	902.28	14.90	901.5	6.10	910.30	NM	NM
MW-02	932.15	16.00	916.15	13.72	918.43	10.50	921.65	15.73	916.42	14.00	918.15	6.49	925.66	14.55	917.60
MW-03	927.73	NM	NM	15.24	912.49	9.45	918.28	16.61	911.12	18.98	908.75	5.13	922.60	15.45	912.28
MW-04	932.08	10.75	921.33	9.11	922.97	NM	NM	9.78	922.30	9.10	922.98	5.14	926.94	8.77	923.31
MW-05	931.73	11.74	919.99	9.19	922.54	6.80	924.93	10.97	920.76	9.15	922.58	2.53	929.20	9.40	922.33
MW-5D	932.04	13.08	918.96	10.10	921.94	7.76	924.28	12.06	919.98	9.96	922.08	3.38	928.66	10.44	921.60
MW-06	931.5	15.08	916.42	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
MW-07	914.91	Dry	Dry	Dry	Dry	17.41	897.50	19.86	895.05	19.85	895.06	13.21	901.70	19.84	895.07
MW-08	913.66	16.19	897.47	13.37	900.29	10.41	903.25	14.50	899.16	14.10	899.56	8.31	905.35	14.73	898.93
MW-09	920.94	NM	NM	13.35	907.59	11.21	909.73	13.25	907.69	13.38	907.56	9.70	911.24	13.62	907.32
MW-10	922.96	21.42	901.54	20.15	902.81	13.47	909.49	20.58	902.38	22.78	900.18	8.77	914.19	21.25	901.71
MW-11	927.54	NM	NM	19.23	908.31	13.80	913.74	18.66	908.88	20.64	906.9	8.19	919.35	NM	NM
MW-12	934.1	13.55	920.55	11.66	922.44	8.82	925.28	11.86	922.24	12.47	921.63	6.61	927.49	11.19	922.91
MW-13	884.74	NM	NM	9.81	874.93	NM	NM	11.47	873.27	NM	NM	NM	NM	NM	NM
MW-14	930.6	65.97	864.63	82.14	848.46	71.18	859.42	40.95	889.65	39.42	891.18	19.61	910.99	30.13	900.47
MW-15	914.37	18.82	895.55	15.14	899.23	11.92	902.45	16.49	897.88	16.05	898.32	8.86	905.51	17.13	897.24
MW-16	887.32	NM	NM	8.10	879.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-17	932.71	7.72	924.99	27.56	905.15	22.35	910.36	4.28	928.43	6.13	926.58	3.82	928.89	4.06	928.65
MW-18	932.43	10.19	922.24	8.41	924.02	6.48	925.95	9.61	922.82	8.07	924.36	2.33	930.10	6.99	925.44
MW-19	934.2	Dry	NM	Dry	Dry	8.66	925.54	8.75	925.45	7.80	926.4	4.25	929.95	9.66	924.54
MW-20	934.52	9.92	924.60	8.73	925.79	7.10	927.42	9.94	924.58	8.28	926.24	3.70	930.82	8.05	926.47
DMW-1D	922.66	21.07	901.59	19.93	902.73	12.74	909.92	20.14	902.52	22.49	900.17	8.93	913.73	20.83	901.83
DMW-2D	921.71	16.48	905.23	16.50	905.21	10.71	911.00	16.60	905.11	18.95	902.76	5.73	915.98	17.26	904.45
DMW-2S	921.73	16.17	905.56	16.36	905.37	10.43	911.30	16.76	904.97	19.09	902.64	5.25	916.48	17.33	904.40
DMW-3D	923.39	19.47	903.92	18.21	905.18	12.01	911.38	18.92	904.47	21.15	902.24	6.40	916.99	19.41	903.98
DMW-3S	923.3	19.34	903.96	18.09	905.21	11.89	911.41	18.79	904.51	21.06	902.24	6.25	917.05	19.31	903.99
DMW-4D	923.3	26.41	896.89	24.70	898.60	17.10	906.20	24.34	898.96	26.98	896.32	13.19	910.11	24.90	898.40
DMW-5D	915.25	18.86	896.39	34.80	880.45	24.67	890.58	12.40	902.85	16.40	898.85	11.48	903.77	16.30	898.95
INJ-01	932.9	10.86	922.04	8.89	924.01	NM	NM	10.11	922.79	NM	NM	2.50	930.40	8.28	924.62
INJ-02	913.7	16.08	897.62	13.21	900.49	NM	NM	14.33	899.37	NM	NM	9.22	904.48	NM	NM
OBS-01	932.9	10.95	921.95	9.01	923.89	NM	NM	10.33	922.57	8.93	923.97	2.70	930.20	8.74	924.16
OBS-02	932.9	10.72	922.18	8.78	924.12	NM	NM	10.18	922.72	8.79	924.11	2.54	930.36	8.63	924.27
OBS-03	913.7	16.65	897.05	13.35	900.35	NM	NM	NM	NM	14.55	899.15	NM	NM	NM	NM
OBS-4	932.82	-	-	-	-	-	-	-	-	11.21	921.61	5.03	927.79	11.61	921.21
OBS-5	932.38	-	-	-	-	-	-	-	-	11.40	920.98	5.23	927.15	12.12	920.26
OBS-6	933.40	-	-	-	-	-	-	-	-	15.11	918.29	7.34	926.06	14.48	918.92
OBS-7	932.12	-	-	-	-	-	-	-	-	11.00	921.12	5.10	927.02	12.20	919.92
OBS-8	932.39	-	-	-	-	-	-	-	-	11.29	921.10	5.54	926.85	12.50	919.89

Elevation survey has not been completed.
NM - Not Measured
ft msl - Feet Above Mean Sea Level
ft btoc - Feet Below Top of Casing

Table 2
Summary of Groundwater Analytical Results
C D Technologies
1835 Rockdale Industrial Boulevard
Conyers, Rockdale County, Georgia

Chemical Constituent	Type 1/3 RRS	CD-01						CD-03					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16
Arsenic	***0.01**	NS	0.01U	NS	NS	NA	NA	1U	0.01U	NS	NA	NA	NS
Barium	**2**	NS	0.0917	NS	NS	NA	NA	1U	1U	NS	NA	NA	NS
Cadmium	**0.005**	NS	0.0012	NS	NS	NA	NA	0.1U	0.01U	NS	NA	NA	NS
Chromium	**0.1**	NS	**0.018**	NS	NS	NA	NA	0.5U	0.05U	NS	NA	NA	NS
Lead	**0.015**	NS	**1.2**	NS	NS	**0.161**	**0.0659**	0.5U	0.05U	NS	NA	0.00183J	NS
Mercury	**0.002**	NS	0.0002U	NS	NS	NA	NA	0.0002U	0.0002U	NS	NA	NA	NS
1,4-Dichlorobenzene	**75**	NS	1U	NS	NS	1U	1U	NA	1U	NS	1U	1U	NS
2-Butanone	**2000**	NS	50U	NS	NS	50U	50U	50U	50U	NS	50U	50U	NS
Acetone	**4000**	NS	50U	NS	NS	25U	25U	50U	50U	NS	50U	25U	NS
Carbon disulfide	**4000**	NS	1U	NS	NS	1U	1U	1U	1U	NS	1U	1U	NS
Chloroform	**100**	NS	1U	NS	NS	1U	1U	1U	1U	NS	1U	1U	NS
cis-DCE	**1**	NS	1U	NS	NS	1U	1U	1U	1U	NS	1U	1U	NS
p-Isopropyltoluene	**1**	NS	1U	NS	NS	1U	1U	1U	1U	NS	1U	1U	NS
PCE	**5**	NS	1U	NS	NS	1U	1U	1U	1U	NS	1U	1U	NS
trans-DCE	**100**	NS	1U	NS	NS	1U	1U	1U	1U	NS	1U	1U	NS
TCE	**5**	NS	1U	NS	NS	1U	1U	3.27	1U	NS	1U	1U	NS

Chemical Constituent	Type 1/3 RRS	MW-1						MW-2					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	0.01U	NS	NS	NA	NS	**0.169**	0.026	NS	NA	NA	NA
Barium	**2**	NS	0.0279	NS	NS	NA	NS	**0.282**	0.19	NS	NA	NA	NA
Cadmium	**0.005**	NS	0.0022	NS	NS	NA	NS	**0.0208**	0.0054	NS	NA	NA	NA
Chromium	**0.1**	NS	0.005U	NS	NS	NA	NS	**0.0652**	0.005U	NS	NA	NA	NA
Lead	**0.015**	NS	0.005U	NS	NS	NA	NS	**0.264**	**0.0117**	NS	NA	**0.00244**	NA
Mercury	**0.002**	NS	0.000339	NS	NS	NA	NS	**0.00481**	0.0002U	NS	NA	NA	NA
1,4-Dichlorobenzene	**75**	NS	1U	NS	NS	1U	NS	NA	1U	NS	NS	1U	1U
2-Butanone	**2000**	NS	50U	NS	NS	25U	NS	50U	50U	NS	NS	**991**	25U
Acetone	**4000**	NS	50U	NS	NS	25U	NS	50U	50U	NS	NS	25U	25U
Carbon disulfide	**4000**	NS	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	1U
Chloroform	**100**	NS	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	1U
cis-DCE	**1**	NS	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	**3.57**
p-Isopropyltoluene	**1**	NS	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	1U
PCE	**5**	NS	1U	NS	NS	1U	NS	**2.58**	**1.67**	NS	NS	1U	1U
trans-DCE	**100**	NS	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	1U
TCE	**5**	NS	**28.9**	NS	NS	**4.02**	NS	**2120**	**599**	NS	**1090**	1.31	**43.1**

Chemical Constituent	Type 1/3 RRS	MW-3					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	0.0426	NS	NA	NA	NA
Barium	**2**	NS	0.0227	NS	NA	NA	NA
Cadmium	**0.005**	NS	0.0049	NS	NA	NA	NA
Chromium	**0.1**	NS	0.005U	NS	NA	NA	NA
Lead	**0.015**	NS	**0.0092**	NS	NA	0.00200U	NA
Mercury	**0.002**	NS	0.0002U	NS	NA	NA	NA
1,4-Dichlorobenzene	**75**	NS	1U	NS	1U	1U	1U
2-Butanone	**2000**	NS	50U	NS	50U	50U	50U
Acetone	**4000**	NS	50U	NS	50U	25U	25U
Carbon disulfide	**4000**	NS	1U	NS	1U	1U	1U
Chloroform	**100**	NS	1U	NS	1U	1U	**0.322**
cis-DCE	**1**	NS	**7.15**	NS	**1.42**	1U	1U
p-Isopropyltoluene	**1**	NS	1U	NS	1U	1U	1U
PCE	**5**	NS	**34.4**	NS	**27.9**	**1.03**	**0.433**
trans-DCE	**100**	NS	1U	NS	1U	1U	1U
TCE	**5**	NS	**45.1**	NS	**20.7**	**50.6**	**154**

Chemical Constituent	Type 1/3 RRS	MW-4						MW-5					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16
Arsenic	***0.01**	0.01U	0.01U	NS	NS	NA	NS	NA	NA	NS	NA	NA	NA
Barium	**2**	**0.0218**	0.0293	NS	NS	NA	NS	1U	NA	NS	NA	NA	NA
Cadmium	**0.005**	0.001U	0.001U	NS	NS	NA	NS	0.1U	NA	NS	NA	NA	NA
Chromium	**0.1**	0.005U	0.005U	NS	NS	NA	NS	0.5U	NA	NS	NA	NA	NA
Lead	**0.015**	**0.02**	0.005U	NS	NS	NA	NS	0.5U	NA	NS	NA	**0.0176**	**0.0178J**
Mercury	**0.002**	0.0002U	0.0002U	NS	NS	NA	NS	**0.000511**	NA	NS	NA	NA	NA
1,4-Dichlorobenzene	**75**	NA	NA	NS	NS	1U	NS	NA	1U	NS	1U	1U	1U
2-Butanone	**2000**	50U	NA	NS	NS	50U	NS	50U	50U	NS	50U	50U	50U
Acetone	**4000**	50U	NA	NS	NS	25U	NS	**7140**	**3530**	NS	**954**	25U	25U
Carbon disulfide	**4000**	1U	NA	NS	NS	1U	NS	**7.48**	**5.51**	NS	**24.8**	1U	1U
Chloroform	**100**	1U	NA	NS	NS	1U	NS	**1.32**	1U	NS	1U	1U	1U
cis-DCE	**1**	1U	NA	NS	NS	1U	NS	1U	1U	NS	1U	1U	**1.19J**
p-Isopropyltoluene	**1**	1U	NA	NS	NS	1U	NS	1U	1U	NS	1U	1U	1U
PCE	**5**	1U	NA	NS	NS	1U	NS	**2.32**	**2.43**	NS	1U	1U	**1.59J**
trans-DCE	**100**	1U	NA	NS	NS	1U	NS	1U	1U	NS	1U	1U	1U
TCE	**5**	1U	NA	NS	NS	1U	NS	**11700**	**8240**	NS	**15300**	**1940**	**8480**

Chemical Constituent	Type 1/3 RRS	MW-5D						MW-6					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	1U	NA	NS	NA	NA	NA	1U	NA	NS	NS	NS	NS
Barium	**2**	1U	NA	NS	NA	NA	NA	1U	NA	NS	NS	NS	NS
Cadmium	**0.005**	0.1U	NA	NS	NA	NA	NA	0.1U	NA	NS	NS	NS	NS
Chromium	**0.1**	0.5U	NA	NS	NA	NA	NA	0.5U	NA	NS	NS	NS	NS
Lead	**0.015**	0.5U	NA	NS	NA	**0.314**	**0.302**	0.5U	NA	NS	NS	NS	NS
Mercury	**0.002**	**0.000249**	NA	NS	NA	NA	NA	0.0002U	NA	NS	NS	NS	NS
1,4-Dichlorobenzene	**75**	1U	1U	NS	1U	1U	1U	NA	NA	NS	NS	NS	NS
2-Butanone	**2000**	50U	50U	NS	50U	50U	50U	50U	NA	NS	NS	NS	NS
Acetone	**4000**	**10900**	**10800**	NS	**5010**	**341**	**446**	50U	NA	NS	NS	NS	NS
Carbon disulfide	**4000**	**2.35**	**4.52**	NS	**5.18**	**6.92**	**3.07J**	1U	NA	NS	NS	NS	NS
Chloroform	**100**	**2.89**	**3.44**	NS	1U	**2.83**	1U	1U	NA	NS	NS	NS	NS
cis-DCE	**1**	**1.01**	**1.33**	NS	1U	**2.44**	**2.24J**	**1.26**	NA	NS	NS	NS	NS
p-Isopropyltoluene	**1**	1U	1U	NS	1U	0.781J	1U	1U	NA	NS	NS	NS	NS
PCE	**5**	1U	**1.08**	NS	1U	**1.55**	1U	**18.5**	NA	NS	NS	NS	NS
trans-DCE	**100**	1U	1U	NS	1U	1U	1U	1U	NA	NS	NS	NS	NS
TCE	**5**	**1600**	**2100**	NS	**699**	**1760**	**1030**	**16.1**	NA	NS	NS	NS	NS

Chemical Constituent	Type 1/3 RRS	MW-7					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	NS	NA	NS	NA	NS
Barium	**2**	NS	NS	NA	NS	NA	NS
Cadmium	**0.005**	NS	NS	NA	NS	NA	NS
Chromium	**0.1**	NS	NS	NA	NS	NA	NS
Lead	**0.015**	NS	NS	NA	NS	NA	NS
Mercury	**0.002**	NS	NS	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	NS	NS	1U	NS	1U	NS
2-Butanone	**2000**	NS	NS	50U	NS	50U	NS
Acetone	**4000**	NS	NS	50U	NS	25U	NS
Carbon disulfide	**4000**	NS	NS	1U	NS	1U	NS
Chloroform	**100**	NS	NS	1U	NS	1U	NS
cis-DCE	**1**	NS	NS	1U	NS	1U	NS
p-Isopropyltoluene	**1**	NS	NS	1U	NS	1U	NS
PCE	**5**	NS	NS	1U	NS	1U	NS
trans-DCE	**100**	NS	NS	1U	NS	1U	NS
TCE	**5**	NS	NS	1U	NS	1U	NS

Chemical Constituent	Type 1/3 RRS	MW-8						MW-8 SBR					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NA	0.01U	NS	NS	NA	NS	NS	0.01U	NA	NS	NA	NA
Barium	**2**	NA	0.0603	NS	NS	NA	NS	NS	0.0475	NA	NS	NA	NA
Cadmium	**0.005**	NA	0.001U	NS	NS	NA	NS	NS	0.0014	NA	NS	NA	NA
Chromium	**0.1**	NA	0.005U	NS	NS	NA	NS	NS	0.005U	NA	NS	NA	NA
Lead	**0.015**	NA	0.005U	NS	NS	NA	NS	NS	0.005U	NA	NS	NA	NA
Mercury	**0.002**	NA	0.0002U	NS	NS	NA	NS	NS	0.0002U	NA	NS	NA	NA
1,4-Dichlorobenzene	**75**	NA	NA	NS	NS	1U	NS	NS	1U	1U	NS	1U	1U
2-Butanone	**2000**	50U	NA	NS	NS	50U	NS	NS	50U	50U	NS	50U	50U
Acetone	**4000**	50U	NA	NS	NS	25U	NS	NS	50U	50U	NS	25U	25U
Carbon disulfide	**4000**	1U	NA	NS	NS	1U	NS	NS	1U	1U	NS	1U	1U
Chloroform	**100**	1U	NA	NS	NS	1U	NS	NS	1U	1U	NS	1U	1U
cis-DCE	**1**	**63.9**	NA	NS	NS	1U	NS	NS	**1**	1U	NS	0.489J	1.44J
p-Isopropyltoluene	**1**	1U	NA	NS	NS	1U	NS	NS	1U	1U	NS	1U	1U
PCE	**5**	1U	NA	NS	NS	1U	NS	NS	**3.51**	**3.26**	NS	**1.57**	**1.26**
trans-DCE	**100**	**1.06**	NA	NS	NS	1U	NS	NS	1U	1U	NS	1U	1U
TCE	**5**	**10.1**	NA	NS	NS	1U	NS	NS	**292**	**311**	NS	**387**	**290**

Chemical Constituent	Type 1/3 RRS	MW-9						MW-9 SBR					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	0.01U	0.01U	NS	NS	NA	NS	NS	0.01U	NA	NS	NA	NS
Barium	**2**	**0.132**	0.132	NS	NS	NA	NS	NS	0.023	NA	NS	NA	NS
Cadmium	**0.005**	0.001U	0.001U	NS	NS	NA	NS	NS	0.001U	NA	NS	NA	NS
Chromium	**0.1**	0.005U	0.005U	NS	NS	NA	NS	NS	0.005U	NA	NS	NA	NS
Lead	**0.015**	**0.00782**	**0.00782**	NS	NS	NA	NS	NS	0.005U	NA	NS	NA	NS
Mercury	**0.002**	0.0002U	0.0002U	NS	NS	NA	NS	NS	0.0002U	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	1U	1U	NS	1U	NS	NS	1U	1U	NS	1U	NS
2-Butanone	**2000**	50U	50U	NS	NS	50U	NS	NS	50U	50U	NS	50U	NS
Acetone	**4000**	50U	50U	NS	NS	25U	NS	NS	50U	50U	NS	25U	NS
Carbon disulfide	**4000**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
Chloroform	**100**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
cis-DCE	**1**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
p-Isopropyltoluene	**1**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
PCE	**5**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
trans-DCE	**100**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
TCE	**5**	1U	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS

Chemical Constituent	Type 1/3 RRS	MW-10					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	0.01U	NA	NS	NS	NA	NS
Barium	**2**	**0.156**	NA	NS	NS	NA	NS
Cadmium	**0.005**	0.001U	NA	NS	NS	NA	NS
Chromium	**0.1**	0.005U	NA	NS	NS	NA	NS
Lead	**0.015**	0.005U	NA	NS	NS	NA	NS
Mercury	**0.002**	0.0002U	NA	NS	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	NS	1U	NS
2-Butanone	**2000**	50U	NA	NS	NS	50U	NS
Acetone	**4000**	50U	NA	NS	NS	25U	NS
Carbon disulfide	**4000**	1U	NA	NS	NS	1U	NS
Chloroform	**100**	1U	NA	NS	NS	1U	NS
cis-DCE	**1**	1U	NA	NS	NS	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	NS	1U	NS
PCE	**5**	1U	NA	NS	NS	1U	NS
trans-DCE	**100**	1U	NA	NS	NS	1U	NS
TCE	**5**	1U	NA	NS	NS	1U	NS

Abbreviations:
cis-DCE - cis-1,2-Dichloroethene
trans-DCE - trans-1,2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
NA - Not Analyzed
NS - Not Sampled
Notes:
Type 1/3 RRS are in accordance with GA HSRA Criteria for Type 3 Standards (GA HSRA Rule 391-3-19-.07).
Bold indicates concentrations above detection limit.
Shading indicates concentrations exceeding the Type 3 RRSs
U indicates below detection limit
* Indicates the reporting limit has been changed since the previous sampling events.

Table 2
Summary of Groundwater Analytical Results
C D Technologies
1835 Rockdale Industrial Boulevard
Conyers, Rockdale County, Georgia

Chemical Constituent	Type 1/3 RRS	MW-11						MW-11 SBR					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	NA	NS	NS	NA	NS	NS	0.01U	NA	NS	NA	NS
Barium	**2**	NS	NA	NS	NS	NA	NS	NS	0.051	NA	NS	NA	NS
Cadmium	**0.005**	NS	NA	NS	NS	NA	NS	NS	0.001U	NA	NS	NA	NS
Chromium	**0.1**	NS	NA	NS	NS	NA	NS	NS	0.005U	NA	NS	NA	NS
Lead	**0.015**	NS	NA	NS	NS	NA	NS	NS	0.005U	NA	NS	NA	NS
Mercury	**0.002**	NS	NA	NS	NS	NA	NS	NS	0.0002U	NA	NS	0.464J	NS
1,4-Dichlorobenzene	**75**	NS	1U	NS	NS	1U	NS	NS	**6.37**	**6.02**	NS	1U	NS
2-Butanone	**2000**	NS	50U	NS	NS	50U	NS	NS	50U	50U	NS	50U	NS
Acetone	**4000**	NS	50U	NS	NS	25U	NS	NS	50U	50U	NS	25U	NS
Carbon disulfide	**4000**	NS	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
Chloroform	**100**	NS	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
cis-DCE	**1**	NS	1U	NS	NS	1U	NS	NS	**2.22**	**1.82**	NS	1U	NS
p-Isopropyltoluene	**1**	NS	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
PCE	**5**	NS	1U	NS	NS	1U	NS	NS	**13.1**	**12.8**	NS	**2.74**	NS
trans-DCE	**100**	NS	1U	NS	NS	1U	NS	NS	1U	1U	NS	1U	NS
TCE	**5**	NS	1U	NS	NS	1U	NS	NS	**2.76**	**2.14**	NS	0.401J	NS

Chemical Constituent	Type 1/3 RRS	MW-12						MW-13					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	0.01U	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS
Barium	**2**	NS	0.0374	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS
Cadmium	**0.005**	NS	0.001U	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS
Chromium	**0.1**	NS	0.005U	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS
Lead	**0.015**	NS	0.005U	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS
Mercury	**0.002**	NS	0.0002U	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	**75**	NS	1U	NS	NS	1U	NS	NA	NS	NS	NS	NS	NS
2-Butanone	**2000**	NS	50U	NS	NS	50U	NS	50U	NS	NS	NS	NS	NS
Acetone	**4000**	NS	50U	NS	NS	25U	NS	50U	NS	NS	NS	NS	NS
Carbon disulfide	**4000**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS
Chloroform	**100**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS
cis-DCE	**1**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS
p-Isopropyltoluene	**1**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS
PCE	**5**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS
trans-DCE	**100**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS
TCE	**5**	NS	1U	NS	NS	1U	NS	1U	NS	NS	NS	NS	NS

Chemical Constituent	Type 1/3 RRS	MW-14					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	0.01U	NA	NS	NA	NA	NS
Barium	**2**	0.01U	NA	NS	NA	NA	NS
Cadmium	**0.005**	0.001U	NA	NS	NA	NA	NS
Chromium	**0.1**	0.005U	NA	NS	NA	NA	NS
Lead	**0.015**	0.005U	NA	NS	NA	**0.00566**	NS
Mercury	**0.002**	0.0002U	NA	NS	NA	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	1U	1U	NS
2-Butanone	**2000**	50U	NA	NS	50U	50U	NS
Acetone	**4000**	50U	NA	NS	50U	25U	NS
Carbon disulfide	**4000**	1U	NA	NS	1U	1U	NS
Chloroform	**100**	1U	NA	NS	1U	1U	NS
cis-DCE	**1**	1U	NA	NS	1U	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	1U	1U	NS
PCE	**5**	1U	NA	NS	1U	1U	NS
trans-DCE	**100**	1U	NA	NS	1U	1U	NS
TCE	**5**	1U	NA	NS	1U	1U	NS

Chemical Constituent	Type 1/3 RRS	MW-15						MW-16					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	0.01U	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS
Barium	**2**	NS	0.0512	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS
Cadmium	**0.005**	NS	0.001U	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS
Chromium	**0.1**	NS	0.005U	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS
Lead	**0.015**	NS	0.005U	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS
Mercury	**0.002**	NS	0.0002U	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS
1,4-Dichlorobenzene	**75**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
2-Butanone	**2000**	NS	50U	NS	NS	50U	NS	NS	50U	NS	NS	NS	NS
Acetone	**4000**	NS	50U	NS	NS	25U	NS	NS	50U	NS	NS	NS	NS
Carbon disulfide	**4000**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
Chloroform	**100**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
cis-DCE	**1**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
p-Isopropyltoluene	**1**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
PCE	**5**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
trans-DCE	**100**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
TCE	**5**	NS	1U	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS

Chemical Constituent	Type 1/3 RRS	MW-17						MW-18					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16
Arsenic	***0.01**	0.01U	NA	NS	NS	NA	NA	1U	NA	NS	NS	NA	NS
Barium	**2**	**0.0147**	NA	NS	NS	NA	NA	1U	NA	NS	NS	NA	NS
Cadmium	**0.005**	0.001U	NA	NS	NS	NA	NA	0.1U	NA	NS	NS	NA	NS
Chromium	**0.1**	0.005U	NA	NS	NS	NA	NA	0.5U	NA	NS	NS	NA	NS
Lead	**0.015**	0.005U	NA	NS	NS	**0.000356J**	NS	0.5U	NA	NS	NS	**0.0121**	NS
Mercury	**0.002**	0.0002U	NA	NS	NS	NA	NA	0.0002U	NA	NS	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	1U	NS	NS	1U	1U	NA	1U	NS	NS	1U	NS
2-Butanone	**2000**	50U	50U	NS	NS	50U	50U	50U	50U	NS	NS	50U	NS
Acetone	**4000**	50U	50U	NS	NS	4.51J	4.51J	**1280**	**9280**	NS	NS	25U	NS
Carbon disulfide	**4000**	1U	1U	NS	NS	1U	1U	**3.1**	**20**	NS	NS	1U	NS
Chloroform	**100**	1U	1U	NS	NS	1U	1U	**2.83**	**1.79**	NS	NS	1U	NS
cis-DCE	**1**	1U	1U	NS	NS	0.215J	0.215J	**2.32**	**1.64**	NS	NS	1U	NS
p-Isopropyltoluene	**1**	1U	1U	NS	NS	1U	1U	**1.08**	1U	NS	NS	1U	NS
PCE	**5**	**60M7**	**29.3**	NS	NS	**18.1**	**6.88**	**1.36**	**1.4**	NS	NS	0.170J	NS
trans-DCE	**100**	1U	1U	NS	NS	1U	1U	1U	1U	NS	NS	1U	NS
TCE	**5**	**7.92**	**9.14**	NS	NS	**7.23**	**6.72**	**1980**	**1260**	NS	NS	0.943J	NS

Chemical Constituent	Type 1/3 RRS	MW-19					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16
Arsenic	***0.01**	NS	NA	NS	NA	NA	NA
Barium	**2**	NS	NA	NS	NA	NA	NA
Cadmium	**0.005**	NS	NA	NS	NA	NA	NA
Chromium	**0.1**	NS	NA	NS	NA	NA	NA
Lead	**0.015**	NS	NA	NS	NA	**0.0242**	**0.0226**
Mercury	**0.002**	NS	NA	NS	NA	NA	NA
1,4-Dichlorobenzene	**75**	NS	NA	NS	1U	1U	1U
2-Butanone	**2000**	NS	NA	NS	1U	50U	50U
Acetone	**4000**	NS	NA	NS	50U	25U	25U
Carbon disulfide	**4000**	NS	NA	NS	1U	1U	1U
Chloroform	**100**	NS	NA	NS	1U	1U	1U
cis-DCE	**1**	NS	NA	NS	1U	1U	1U
p-Isopropyltoluene	**1**	NS	NA	NS	1U	1U	1U
PCE	**5**	NS	NA	NS	1U	1U	1U
trans-DCE	**100**	NS	NA	NS	1U	1U	1U
TCE	**5**	NS	NA	NS	1U	1U	1U

Chemical Constituent	Type 1/3 RRS	MW-20						MW-21 DBR					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NA	0.01U	NS	NS	NA	NA	NS	0.01U	NA	NS	NA	NS
Barium	**2**	NA	0.0269	NS	NS	NA	NA	NS	0.0408	NA	NS	NA	NS
Cadmium	**0.005**	NA	0.001U	NS	NS	NA	NA	NS	0.001U	NA	NS	NA	NS
Chromium	**0.1**	NA	0.005U	NS	NS	NA	NA	NS	0.005U	NA	NS	NA	NS
Lead	**0.015**	NA	**0.0053**	NS	NS	**0.0362**	**0.114**	NS	0.005U	NA	NS	NA	NS
Mercury	**0.002**	NA	0.0002U	NS	NS	NA	NA	NS	0.0002U	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	1U	1U	NS	NS	1U	1U	NS	1U	NS
2-Butanone	**2000**	50U	NA	NS	1U	50U	NS	NS	50U	50U	NS	50U	NS
Acetone	**4000**	50U	NA	NS	50U	25U	NS	NS	50U	50U	NS	6.07J	NS
Carbon disulfide	**4000**	1U	NA	NS	1U	1U	NS	NS	1U	1U	NS	0.777J	NS
Chloroform	**100**	1U	NA	NS	1U	1U	NS	NS	1U	1U	NS	1U	NS
cis-DCE	**1**	1U	NA	NS	1U	1U	NS	NS	1U	1U	NS	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	1U	1U	NS	NS	1U	1U	NS	1U	NS
PCE	**5**	1U	NA	NS	1U	1U	NS	NS	**30.9**	**20.3**	NS	**11.7**	NS
TCE	**5**	1U	NA	NS	1U	1U	NS	NS	1U	1U	NS	1U	NS

Chemical Constituent	Type 1/3 RRS	MW-22 SBR						MW-23 SBR					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	0.01U	NA	NS	NA	NS	NS	0.01U	NA	NS	NA	NS
Barium	**2**	NS	0.0571	NA	NS	NA	NS	NS	0.137	NA	NS	NA	NS
Cadmium	**0.005**	NS	0.001U	NA	NS	NA	NS	NS	0.0011	NA	NS	NA	NS
Chromium	**0.1**	NS	0.005U	NA	NS	NA	NS	NS	0.005U	NA	NS	NA	NS
Lead	**0.015**	NS	0.005U	NA	NS	NA	NS	NS	0.005U	NA	NS	NA	NS
Mercury	**0.002**	NS	0.0002U	NA	NS	NA	NS	NS	0.0002U	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	NS	1U	1U	NS	1U	NS	NS	1U	1U	NS	1U	NS
2-Butanone	**2000**	NS	50U	50U	NS	50U	NS	NS	50U	50U	NS	50U	NS
Acetone	**4000**	NS	50U	50U	NS	25U	NS	NS	50U	50U	NS	25U	NS
Carbon disulfide	**4000**	NS	1U	1U	NS	1U	NS	NS	1U	1U	NS	1U	NS
Chloroform	**100**	NS	1U	1U	NS	1U	NS	NS	1U	1U	NS	1U	NS
cis-DCE	**1**	NS	**1.22**	**1.14**	NS	1U	NS	NS	**1.66**	**1.44**	NS	0.718J	NS
p-Isopropyltoluene	**1**	NS	1U	1U	NS	1U	NS	NS	1U	1U	NS	1U	NS
PCE	**5**	NS	**6.06**	**5.21**	NS	**1.35**	NS	NS	**22**	**15.9**	NS	**9.34**	NS
trans-DCE	**100**	NS	1U	1U	NS	1U	NS	NS	1U	1U	NS	1U	NS
TCE	**5**	NS	**23.5**	**20**	NS	**1.2**	NS	NS	**200**	**145**	NS	**9.6**	NS

Chemical Constituent	Type 1/3 RRS	MW-24 SBR					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16
Arsenic	***0.01**	NS	0.01U	NA	NS	NA	NA
Barium	**2**	NS	0.0349	NA	NS	NA	NA
Cadmium	**0.005**	NS	0.001U	NA	NS	NA	NA
Chromium	**0.1**	NS	0.005U	NA	NS	NA	NA
Lead	**0.015**	NS	0.005U	NA	NS	NA	NA
Mercury	**0.002**	NS	0.0002U	NA	NS	NA	NA
1,4-Dichlorobenzene	**75**	NS	1U	1U	NS	1U	1U
2-Butanone	**2000**	NS	50U	50U	NS	50U	50U
Acetone	**4000**	NS	50U	50U	NS	25U	25U
Carbon disulfide	**4000**	NS	1U	1U	NS	1U	1U
Chloroform	**100**	NS	1U	1U	NS	0.237J	1U
cis-DCE	**1**	NS	1U	1U	NS	1U	1U
p-Isopropyltoluene	**1**	NS	1U	1U	NS	1U	1U
PCE	**5**	NS	1U	1U	NS	0.462J	1U
trans-DCE	**100**	NS	1U	1U	NS	1U	1U
TCE	**5**	NS	**79.3**	**145**	NS	**20.6**	**7.8**

Abbreviations:
cis-DCE - cis-1,2-Dichloroethene
trans-DCE - trans-1,2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
NA - Not Analysed
NS - Not Sampled
Notes:
Type 3 RRS is in accordance with GA HSRA Criteria for Type 3 Standards (GA HSRA Rule 391-3-19-.07).
Bold indicates concentrations above detection limit.
Shading indicates concentrations exceeding the Type 3 RRSs
U indicates below detection lim
* Indicates the reporting limit has been changed since the previous sampling events.

Table 2
Summary of Groundwater Analytical Results
C D Technologies
1835 Rockdale Industrial Boulevard
Conyers, Rockdale County, Georgia

Chemical Constituent	Type 1/3 RRS	DMW-1D						DMW-2D					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	**0.105**	0.0961	NS	NS	NA	NS	**0.356**	0.583	NS	NA	NA	NS
Barium	**2**	**0.184**	0.0856	NS	NS	NA	NS	0.1U	0.1U	NS	NA	NA	NS
Cadmium	**0.005**	**0.0012**	0.0026	NS	NS	NA	NS	**0.017**	0.024	NS	NA	NA	NS
Chromium	**0.1**	0.005U	0.005U	NS	NS	NA	NS	0.05U	0.05U	NS	NA	NA	NS
Lead	**0.015**	**0.0183**	**0.0172**	NS	NS	NA	NS	**0.072**	**0.088**	NS	NA	NA	NS
Mercury	**0.002**	0.0002U	0.0002U	NS	NS	NA	NS	**0.000213**	**0.00024**	NS	NA	NA	NS
1,4-Dichlorobenzene	**75**	NA	1U	NS	NS	1U	NS	NA	1U	NS	1U	1U	NS
2-Butanone	**2000**	50U	50U	NS	NS	50U	NS	50U	50U	NS	50U	50U	NS
Acetone	**4000**	50U	50U	NS	NS	25U	NS	50U	50U	NS	50U	25U	NS
Carbon disulfide	**4000**	1U	1U	NS	NS	1U	NS	1U	1U	NS	1U	1U	NS
Chloroform	**100**	1U	1U	NS	NS	1U	NS	1U	1U	NS	1U	1U	NS
cis-DCE	**1**	**2.51**	**1.59**	NS	NS	0.422J	NS	1U	1U	NS	1U	1U	NS
p-Isopropyltoluene	**1**	1U	1U	NS	NS	1U	NS	1U	1U	NS	1U	1U	NS
PCE	**5**	**16.7**	**8.42**	NS	NS	0.441J	NS	**1.97**	**2.34**	NS	1U	0.571J	NS
trans-DCE	**100**	1U	1U	NS	NS	1U	NS	1U	1U	NS	NS	NS	NS
TCE	**5**	**128**	**97.9**	NS	NS	**18.7**	NS	**340**	**378**	NS	**93.4**	**76.3**	NS

Chemical Constituent	Type 1/3 RRS	DMW-2S						DMW-3D					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	0.01U	NA	NS	NA	NA	NS	**0.0712**	0.066	NS	NA	NA	NS
Barium	**2**	**0.0859**	NA	NS	NA	NA	NS	**0.0238**	0.0279	NS	NA	NA	NS
Cadmium	**0.005**	0.001U	NA	NS	NA	NA	NS	**0.0035**	0.0037	NS	NA	NA	NS
Chromium	**0.1**	0.005U	NA	NS	NA	NA	NS	0.005U	0.005U	NS	NA	NA	NS
Lead	**0.015**	0.005U	NA	NS	NA	NA	NS	**0.0207**	**0.0149**	NS	NA	NA	NS
Mercury	**0.002**	0.0002U	NA	NS	NA	NA	NS	0.0002U	0.0002U	NS	NA	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	1U	1U	NS	NA	NA	NS	1U	1U	NS
2-Butanone	**2000**	50U	NA	NS	50U	50U	NS	50U	NA	NS	50U	50U	NS
Acetone	**4000**	50U	NA	NS	50U	25U	NS	50U	NA	NS	50U	25U	NS
Carbon disulfide	**4000**	1U	NA	NS	1U	1U	NS	1U	NA	NS	1U	1U	NS
Chloroform	**100**	1U	NA	NS	1U	1U	NS	1U	NA	NS	1U	1U	NS
cis-DCE	**1**	1U	NA	NS	1U	1U	NS	**1.27**	NA	NS	**3.59**	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	1U	1U	NS	1U	NA	NS	1U	1U	NS
PCE	**5**	NA	NA	NS	1U	1U	NS	**8.21**	NA	NS	**17.2**	**2.81**	NS
trans-DCE	**100**	1U	NA	NS	1U	1U	NS	1U	NA	NS	1U	1U	NS
TCE	**5**	1U	NA	NS	1U	0.259J	NS	**65.1**	NA	NS	**36.7**	**6.64**	NS

Chemical Constituent	Type 1/3 RRS	DMW-3S					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	0.01U	NA	NS	NA	NA	NS
Barium	**2**	**0.033**	NA	NS	NA	NA	NS
Cadmium	**0.005**	0.001U	NA	NS	NA	NA	NS
Chromium	**0.1**	0.005U	NA	NS	NA	NA	NS
Lead	**0.015**	0.005U	NA	NS	NA	NA	NS
Mercury	**0.002**	0.0002U	NA	NS	NA	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	1U	1U	NS
2-Butanone	**2000**	50U	NA	NS	50U	50U	NS
Acetone	**4000**	50U	NA	NS	50U	25U	NS
Carbon disulfide	**4000**	1U	NA	NS	1U	1U	NS
Chloroform	**100**	1U	NA	NS	1U	1U	NS
cis-DCE	**1**	1U	NA	NS	1U	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	1U	1U	NS
PCE	**5**	NA	NA	NS	NA	0.205J	NS
trans-DCE	**100**	1U	NA	NS	1U	1U	NS
TCE	**5**	**1.33**	NA	NS	**1.02**	0.688J	NS

Chemical Constituent	Type 1/3 RRS	DMW-4D						DMW-5D					
		Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NA	0.01U	NS	NS	NA	NS	NA	NA	NS	NS	NA	NS
Barium	**2**	NA	0.0207	NS	NS	NA	NS	NA	NA	NS	NS	NA	NS
Cadmium	**0.005**	NA	0.001U	NS	NS	NA	NS	NA	NA	NS	NS	NA	NS
Chromium	**0.1**	NA	0.005U	NS	NS	NA	NS	NA	NA	NS	NS	NA	NS
Lead	**0.015**	NA	0.005U	NS	NS	NA	NS	NA	NA	NS	NS	NA	NS
Mercury	**0.002**	NA	0.0002U	NS	NS	NA	NS	NA	NA	NS	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	NS	1U	NS	NA	NA	NS	NS	1U	NS
2-Butanone	**2000**	50U	NA	NS	NS	50U	NS	50U	NA	NS	NS	50U	NS
Acetone	**4000**	50U	NA	NS	NS	25U	NS	50U	NA	NS	NS	25U	NS
Carbon disulfide	**4000**	1U	NA	NS	NS	1U	NS	1U	NA	NS	NS	1U	NS
Chloroform	**100**	1U	NA	NS	NS	1U	NS	1U	NA	NS	NS	1U	NS
cis-DCE	**1**	1U	NA	NS	NS	1U	NS	**2.19**	NA	NS	NS	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	NS	1U	NS	1U	NA	NS	NS	1U	NS
PCE	**5**	1U	NA	NS	NS	0.293J	NS	NA	NA	NS	NS	0.494J	NS
trans-DCE	**100**	1U	NA	NS	NS	1U	NS	1U	NA	NS	NS	1U	NS
TCE	**5**	**5.75**	NA	NS	NS	**21.1**	NS	**12.6**	NA	NS	NS	**6.11**	NS

Chemical Constituent	Type 1/3 RRS	INJ-01						INJ-02					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	1U	NA	NS	NS	NA	NS	NA	0.01U	NS	NS	NA	NS
Barium	**2**	1U	NA	NS	NS	NA	NS	NA	0.0457	NS	NS	NA	NS
Cadmium	**0.005**	0.1U	NA	NS	NS	NA	NS	NA	0.001U	NS	NS	NA	NS
Chromium	**0.1**	0.5U	NA	NS	NS	NA	NS	NA	0.005U	NS	NS	NA	NS
Lead	**0.015**	0.5U	NA	NS	NS	NA	NS	NA	0.005U	NS	NS	NA	NS
Mercury	**0.002**	0.0002U	NA	NS	NS	NA	NS	NA	0.0002U	NS	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	1U	NS	NS	1U	NS	NA	1U	NS	NS	1U	NS
2-Butanone	**2000**	50U	**70.3**	NS	NS	50U	NS	50U	50U	NS	NS	50U	NS
Acetone	**4000**	**11100**	**3260**	NS	NS	25U	NS	50U	50U	NS	NS	25U	NS
Carbon disulfide	**4000**	**30.3**	**8.65**	NS	NS	1U	NS	1U	1U	NS	NS	1U	NS
Chloroform	**100**	**2.96**	**1.43**	NS	NS	1U	NS	1U	1U	NS	NS	1U	NS
cis-DCE	**1**	1U	1U	NS	NS	1U	NS	**46**	**2.69**	NS	NS	**10.7**	NS
p-Isopropyltoluene	**1**	1U	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	NS
PCE	**5**	1U	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	NS
trans-DCE	**100**	1U	1U	NS	NS	1U	NS	1U	1U	NS	NS	1U	NS
TCE	**5**	**30.9**	**2.3**	NS	NS	0.265J	NS	1U	1U	NS	NS	**14.2**	NS

Chemical Constituent	Type 1/3 RRS	OBS-1					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16
Arsenic	***0.01**	1U	NA	NS	NS	NA	NS
Barium	**2**	1U	NA	NS	NS	NA	NS
Cadmium	**0.005**	0.1U	NA	NS	NS	NA	NS
Chromium	**0.1**	0.5U	NA	NS	NS	NA	NS
Lead	**0.015**	0.5U	NA	NS	NS	NA	NS
Mercury	**0.002**	0.0002U	NA	NS	NS	NA	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	NS	1U	NS
2-Butanone	**2000**	**189**	NA	NS	NS	50U	NS
Acetone	**4000**	**5660**	NA	NS	NS	25U	NS
Carbon disulfide	**4000**	**5.48**	NA	NS	NS	1U	NS
Chloroform	**100**	**1.02**	NA	NS	NS	1U	NS
cis-DCE	**1**	1U	NA	NS	NS	1U	NS
p-Isopropyltoluene	**1**	1U	NA	NS	NS	1U	NS
PCE	**5**	1U	NA	NS	NS	1U	NS
trans-DCE	**100**	1U	NA	NS	NS	1U	NS
TCE	**5**	**8.3**	NA	NS	NS	0.332J	NS

Chemical Constituent	Type 1/3 RRS	OBS-2						OBS-3					
		Oct-08	Feb-09	Jun-09	Oct-10	Feb-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	1U	NA	NS	NS	NA	NS	NS	0.01U	NS	NS	NS	NS
Barium	**2**	1U	NA	NS	NS	NA	NS	NS	0.076	NS	NS	NS	NS
Cadmium	**0.005**	0.1U	NA	NS	NS	NA	NS	NS	0.1U	NS	NS	NS	NS
Chromium	**0.1**	0.5U	NA	NS	NS	NA	NS	NS	0.5U	NS	NS	NS	NS
Lead	**0.015**	0.5U	NA	NS	NS	NA	NS	NS	0.5U	NS	NS	NS	NS
Mercury	**0.002**	0.0002U	NA	NS	NS	NA	NS	NS	**0.000346**	NS	NS	NS	NS
1,4-Dichlorobenzene	**75**	NA	NA	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
2-Butanone	**2000**	**66.4**	NA	NS	NS	50U	NS	NS	50U	NS	NS	NS	NS
Acetone	**4000**	**5920**	NA	NS	NS	3.43J	NS	NS	50U	NS	NS	NS	NS
Carbon disulfide	**4000**	**4.92**	NA	NS	NS	0.460J	NS	NS	1U	NS	NS	NS	NS
Chloroform	**100**	**1.66**	NA	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
cis-DCE	**1**	1U	NA	NS	NS	1U	NS	NS	**5.21**	NS	NS	NS	NS
p-Isopropyltoluene	**1**	1U	NA	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
PCE	**5**	1U	NA	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
trans-DCE	**100**	1U	NA	NS	NS	1U	NS	NS	1U	NS	NS	NS	NS
TCE	**5**	**15.4**	NA	NS	NS	**1.43**	NS	NS	1U	NS	NS	NS	NS

Chemical Constituent	Type 1/3 RRS	OBS-4		OBS-5		OBS-6		OBS-7		OBS-8		MW-25 SBR				MW-26 SBR			
		Mar-16	Sep-16	Mar-16	Sep-16	Mar-16	Sep-16	Mar-16	Sep-16	Mar-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NS	NA	NS	NA	NS
Barium	**2**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NS	NA	NS	NA	NS
Cadmium	**0.005**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NS	NA	NS	NA	NS
Chromium	**0.1**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NS	NA	NS	NA	NS
Lead	**0.015**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NS	NA	NS	NA	NS
Mercury	**0.002**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NS	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	1U	NS	1U	NS	1U	NS	1U	NS	1U	1U	1U	NS	1U	NS	1U	NS	1U	NS
2-Butanone	**2000**	21.6J	NS	**567**	NS	1U	NS	50U	NS	**188**	50U	50U	NS	50U	NS	50U	NS	50U	NS
Acetone	**4000**	9.69J	NS	**162**	NS	9.07J	NS	3.75J	NS	**146**	**56.1J**	50U	NS	25U	NS	50U	NS	25U	NS
Carbon disulfide	**4000**	1U	NS	0.728J	NS	0.908J	NS	1U	NS	**4.77**	**5.39**	1U	NS	1U	NS	1U	NS	1U	NS
Chloroform	**100**	1U	NS	1U	NS	1U	NS	1U	NS	1U	1U	1U	NS	1U	NS	1U	NS	1U	NS
cis-DCE	**1**	0.680J	NS	**86.3**	NS	0.873J	NS	**1.43**	NS	**244**	**187**	1U	NS	1U	NS	1U	NS	1U	NS
p-Isopropyltoluene	**1**	1U	NS	1U	NS	1U	NS	1U	NS	1U	1U	1U	NS	1U	NS	1U	NS	1U	NS
PCE	**5**	**2.53**	NS	0.920J	NS	0.304J	NS	0.275J	NS	**1.04**	**0.832J**	1U	NS	1U	NS	**6.96**	NS	**2.93**	NS
trans-DCE	**100**	1U	NS	0.567J	NS	1U	NS	1U	NS	**1.58**	**0.920J**	1U	NS	1U	NS	1U	NS	1U	NS
TCE	**5**	**94.1**	NS	**82.3**	NS	**617**	NS	**363**	NS	**598**	**592**	1U	NS	1U	NS	**8.57**	NS	**2.13**	NS

Abbreviations:
cis-DCE - cis-1,2-Dichloroethene
trans-DCE - trans-1,2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
NA - Not Analyzed
NS - Not Sampled
Notes:
Type 1/3 RRS are in accordance with GA HSRA Criteria for Type 3 Standards (GA HSRA Rule 391-3-19-.07).
Bold indicates concentrations above detection limit.
Shading indicates concentrations exceeding the Type 3 RRSs
U indicates below detection limit
* Indicates the reporting limit has been changed since the previous sampling events.

Table 2
Summary of Groundwater Analytical Results
C D Technologies
1835 Rockdale Industrial Boulevard
Conyers, Rockdale County, Georgia

Chemical Constituent	Type 1/3 RRS	MW-27 SBR				MW-28 SBR				MW-28 DBR					MW-29 SBR				MW-30 SBR			
		Jun-09	Oct-10	Mar-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16	Feb-16	Jun-09	Oct-10	Mar-16	Sep-16	Jun-09	Oct-10	Feb-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NS	NS	NS	NS	NA	NS	NA	NS	NA	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NA
Barium	**2**	NS	NS	NS	NS	NA	NS	NA	NS	NA	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NA
Cadmium	**0.005**	NS	NS	NS	NS	NA	NS	NA	NS	NA	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NA
Chromium	**0.1**	NS	NS	NS	NS	NA	NS	NA	NS	NA	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NA
Lead	**0.015**	NS	NS	NS	NS	NA	NS	NA	NS	NA	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NA
Mercury	**0.002**	NS	NS	NS	NS	NA	NS	NA	NS	NA	NA	NS	NA	NS	NA	NS	NA	NA	NA	NS	NA	NA
1,4-Dichlorobenzene	**75**	NS	NS	NS	NS	1U	NS	1U	NS	NA	1U	NS	1U	NS	1U	NS	1U	1U	1U	NS	1U	1U
2-Butanone	**2000**	NS	NS	NS	NS	50U	NS	50U	NS	NA	50U	NS	50U	NS	50U	NS	50U	50U	50U	NS	50U	50U
Acetone	**4000**	NS	NS	NS	NS	50U	NS	25U	NS	NA	50U	NS	25U	NS	50U	NS	9.26J	9.26J	50U	NS	25U	25U
Carbon disulfide	**4000**	NS	NS	NS	NS	1U	NS	1U	NS	NA	1U	NS	1U	NS	1U	NS	1U	1U	1U	NS	1U	1U
Chloroform	**100**	NS	NS	NS	NS	1U	NS	1U	NS	NA	1U	NS	1U	NS	1U	NS	**1.49**	**1.44**	1U	NS	1U	1U
cis-DCE	**1**	NS	NS	NS	NS	**4.07**	NS	1U	NS	NA	**2.86**	NS	**3.36**	NS	1U	NS	1U	1U	1U	NS	1U	1U
p-Isopropyltoluene	**1**	NS	NS	NS	NS	1U	NS	1U	NS	NA	1U	NS	1U	NS	1U	NS	1U	1U	1U	NS	1U	1U
PCE	**5**	NS	NS	NS	NS	1U	NS	**3.99**	NS	NA	**1.13**	NS	**2.94**	NS	1U	NS	**6.6**	**9.02**	1U	NS	1U	1U
trans-DCE	**100**	NS	NS	NS	NS	1U	NS	1U	NS	NA	1U	NS	1U	NS	1U	NS	1U		1U	NS	1U	1U
TCE	**5**	NS	NS	NS	NS	**5.55**	NS	**14.3**	NS	NA	**7.65**	NS	**37.3**	NS	**6.78**	NS	**34.9**	**39.0**	**2.64**	NS	**4.71**	**3.46**

Chemical Constituent	Type 1/3 RRS	MW-32 SBR				MW-33 SBR				MW-34 SBR				MW-35 SBR			
		Jun-09	Oct-10	Mar-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS
Barium	**2**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS
Cadmium	**0.005**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS
Chromium	**0.1**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS
Lead	**0.015**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS
Mercury	**0.002**	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	**1.87**	NS	0.671J	NS	**5.98**	NS	**2.91**	NS	1U	NS	1U	NS	1U	NS	1U	NS
2-Butanone	**2000**	50U	NS	50U	NS	50U	NS	50U	NS	50U	NS	50U	NS	50U	NS	50U	NS
Acetone	**4000**	50U	NS	25U	NS	50U	NS	25U	NS	50U	NS	25U	NS	50U	NS	25U	NS
Carbon disulfide	**4000**	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS
Chloroform	**100**	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	0.312J	NS	1U	NS	1U	NS
cis-DCE	**1**	1U	NS	0.261J	NS	**1.32**	NS	0.625J	NS	1U	NS	1U	NS	1U	NS	1U	NS
p-Isopropyltoluene	**1**	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS
PCE	**5**	1U	NS	1U	NS	**14.8**	NS	**13.4**	NS	1U	NS	1U	NS	**2.64U**	NS	**1.83**	NS
trans-DCE	**100**	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS	1U	NS
TCE	**5**	**1.92**	NS	0.760J	NS	**1.91**	NS	**1.71**	NS	1U	NS	0.541J	NS	**2.95**	NS	**1.63**	NS

Chemical Constituent	Type 1/3 RRS	MW-36 SBR			MW-37 SBR			MW-38 SBR			MW-7 SBR					
		Oct-10	Mar-16	Sep-16	Oct-10	Mar-16	Sep-16	Oct-10	Mar-16	Sep-16	Oct-08	Feb-09	Jun-09	Oct-10	Mar-16	Sep-16
Arsenic	***0.01**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	0.01U	NA	NS	NA	NS
Barium	**2**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	0.0273	NA	NS	NA	NS
Cadmium	**0.005**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	0.001U	NA	NS	NA	NS
Chromium	**0.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	0.005U	NA	NS	NA	NS
Lead	**0.015**	0.500U	NA	NA	0.500U (M4)	**0.00894**	NS	0.500U	NA	NA	NS	0.005U	NA	NS	NA	NS
Mercury	**0.002**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	0.0002U	NA	NS	NA	NS
1,4-Dichlorobenzene	**75**	1U	1U	1U	1U	1U	1U	1U	1U	1U	NS	NA	1U	NS	1U	NS
2-Butanone	**2000**	50U	50U	50U	50U	50U	50U	50U	50U	**51.8J**	NS	NA	50U	NS	50U	NS
Acetone	**4000**	50U	25U	25U	50U	5.02J	5.02J	50U	**112**	**98.3J**	NS	NA	50U	NS	25U	NS
Carbon disulfide	**4000**	1U	1U	1U	1U	1U	1U	1U	**2.4**	**2.72J**	NS	1U	1U	NS	1U	NS
Chloroform	**100**	**1.96**	1U	1U	**7.9**	1U	**0.234J**	1U	0.336J	1U	NS	1U	1U	NS	1U	NS
cis-DCE	**1**	1U	1U	1U	1U	0.253J	**0.647J**	1U	**23**	**29.6**	NS	1U	1U	NS	1U	NS
p-Isopropyltoluene	**1**	1U	1U	1U	1U	1U	1U	1U	1U	1U	NS	1U	1U	NS	1U	NS
PCE	**5**	**2.89**	**1.15**	**3.15**	**2.59**	**1.33**	**1.95**	**1.16**	**1.96**	**1.69J**	NS	1U	1U	NS	1U	NS
trans-DCE	**100**	1U	1U	1U	1U	1U	1U	1U	1U	1U	NS	1U	1U	NS	1U	NS
TCE	**5**	**217**	**83.1**	**134**	**460**	**130**	**164**	**486**	**535**	**436**	NS	**3.94**	**3.79**	NS	**12.4**	NS

Abbreviations:
cis-DCE - cis-1,2-Dichloroethene
trans-DCE - trans-1,2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
NA - Not Analyzed
NS - Not Sampled
Notes:
Type 1/3 RRS are in accordance with GA HSRA Criteria for Type 3 Standards (GA HSRA Rule 391-3-19-.07).
Bold indicates concentrations above detection limit.
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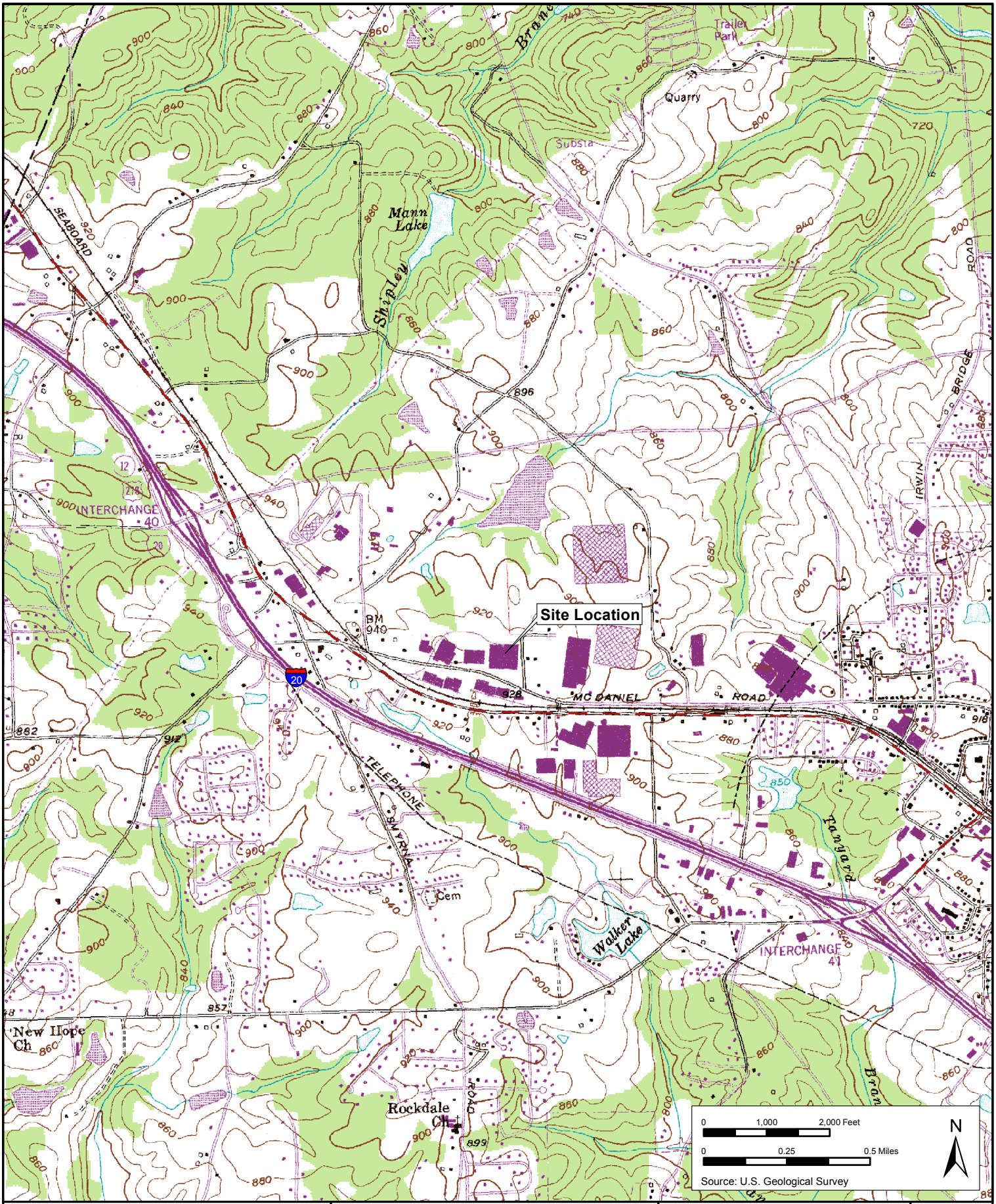
U indicates below detection limit
* Indicates the reporting limit has been changed since the previous sampling events.

Figures



C & D TECHNOLOGIES, INC.
1835 Industrial Blvd.
Conyers, Georgia

AECOM

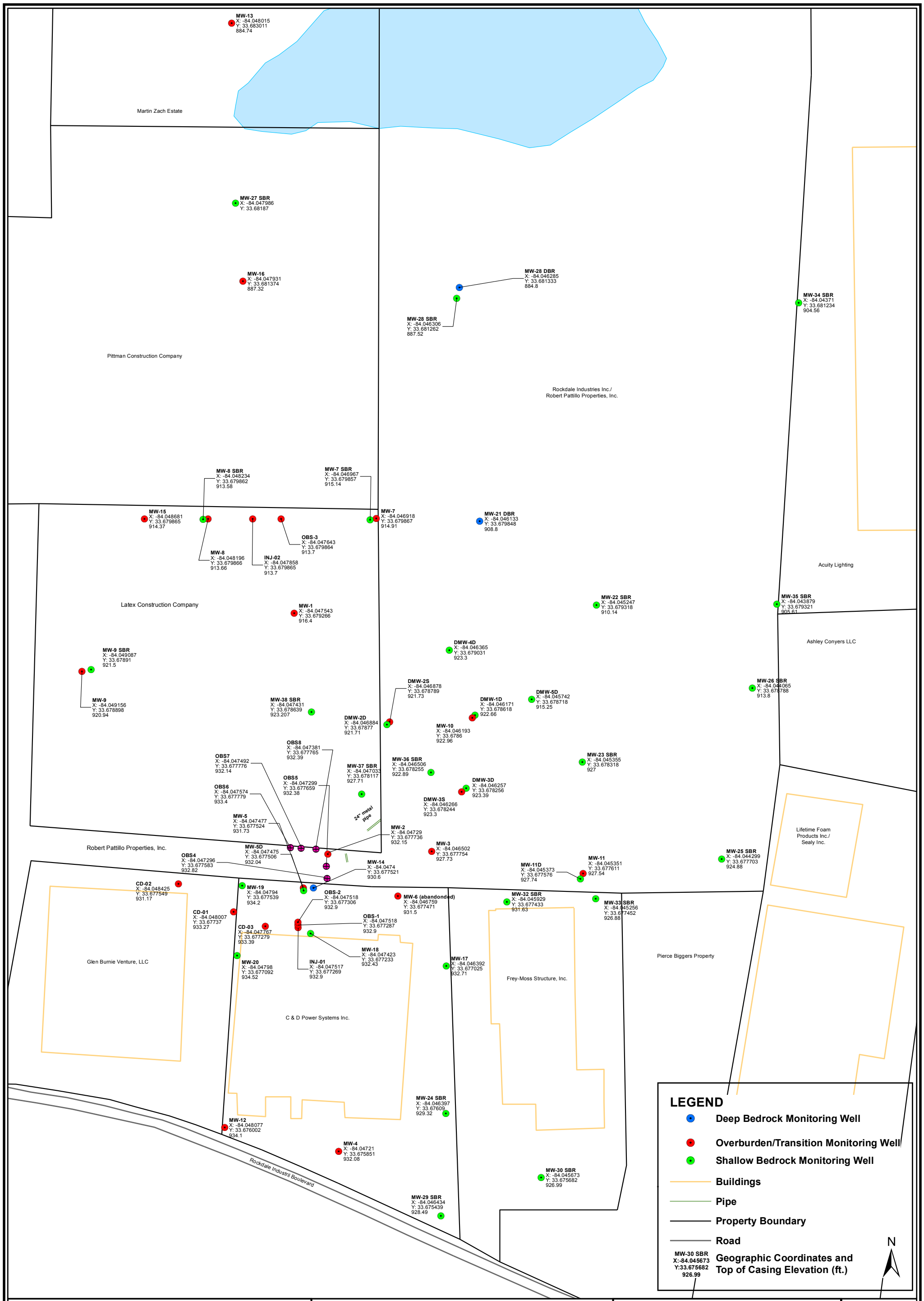
SCALE:	DRAWN BY: DW	DATE: 5/10/2016
1:24,000	CHECKED BY: JM	DATE: 5/10/2016

G:\C_D_Technologies\Conyers Plant\deliverables/8x11-SiteLocation-DRG.mxd

SITE LOCATION MAP

PROJECT NO: 60398770

FIGURE NO: 1



C & D TECHNOLOGIES, INC.
1835 Industrial Blvd.
Conyers, Georgia

AECOM

SCALE:	DRAWN BY:	DATE:
1:2,400 1 " = 200 '	DW	6/22/2016
	CHECKED BY: JM	DATE: 6/22/2016

G:\C_D_Technologies\Conyers Plant\deliverables\fig1-1_groundwater_well_locations.mxd

SITE MAP
GROUNDWATER
WELL LOCATIONS

PROJECT NO:
60398770

FIGURE NO:
2

MW-13
NM

Martin Zach Estate

MW-27 SBR
NM

875

MW-16
NM

MW-28 DBR
876.36

MW-28 SBR
876.89

MW-34 SBR
875.44

Pittman Construction Company

880

Rockdale Industries Inc./
Robert Pattillo Properties, Inc.

885

890

MW-8 SBR
897.63

MW-7 SBR
890.09

MW-7
895.07

895

MW-15
897.24

MW-21 DBR
NM

OBS-3
NM

MW-8
898.93

INJ-02
NM

Acuity Lighting

900

Latex Construction Company

MW-22 SBR
892.39

MW-35 SBR
890.26

MW-1
NM

Ashley Conyers LLC

MW-9 SBR
907.44

905

DMW-4D
898.40

MW-9
907.32

DMW-2S
904.40

DMW-5D
898.95

MW-26 SBR
896.50

MW-38 SBR
909.08

DMW-1D
901.63

910

DMW-2D
904.45

MW-10
901.71

OBS-8
919.89

MW-36 SBR
904.15

OBS-7
919.92

OBS-5
920.26

MW-23 SBR
903.25

MW-37 SBR
912.16

DMW-3D
903.98

915

OBS-6
918.92

DMW-3S
903.99

24" metal
Pipe

MW-5
922.33

MW-2
917.60

Lifetime Foam
Products Inc./
Sealy Inc.

920

Robert Pattillo Properties, Inc.

MW-3
912.28

MW-25 SBR
901.14

OBS-4
921.21

MW-5D
921.60

MW-11 SBR
909.20

MW-11
NM

MW-14
900.47

CD-02
NM

MW-19
925.54

MW-32 SBR
919.73

925

MW-6 (abandoned)

MW-33 SBR
909.81

OBS-2
924.27

OBS-1
924.16

CD-01
925.37

CD-03
925.35

MW-18
925.44

MW-17
928.65

Glen Burnie Venture, LLC

Pierce Biggers Property

MW-20
926.47

INJ-01
924.62

Frey-Moss Structure, Inc.

C & D Power Systems Inc.

MW-24 SBR
923.62

MW-12
922.91

MW-4
923.31

MW-30 SBR
920.89

Rockdale Industrial Boulevard

MW-29 SBR
921.18

LEGEND

- Deep Bedrock Monitoring Well
- Overburden/Transition Monitoring Well
- Shallow Bedrock Monitoring Well
- Groundwater Elevation Contour (feet above mean sea level)
- Buildings
- Pipe
- Property Boundary
- Road

0 45 90 180 270 360
Feet

N

C & D TECHNOLOGIES, INC.
1835 Industrial Blvd.
Conyers, Georgia

AECOM

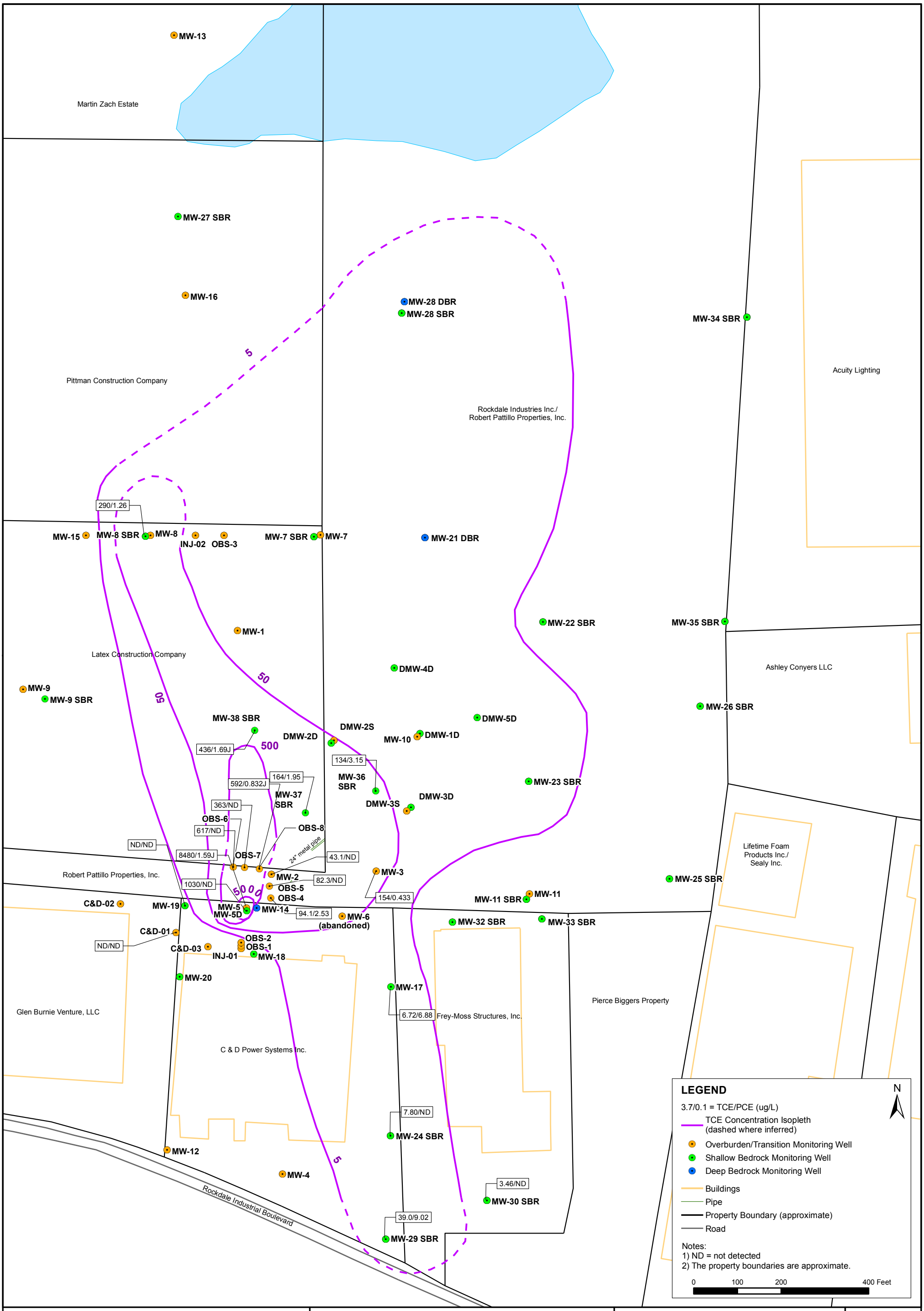
SCALE:	DRAWN BY: DW	DATE: 12/16/2016
1:2,400 1 " = 200 '	CHECKED BY: JM	DATE: 12/16/2016

G:\C_D_Technologies\Conyers Plant\deliverables\fig1-3_potentiometric_map092016.mxd

GROUNDWATER ELEVATION POTENTIOMETRIC SURFACE MAP
September 2016

PROJECT NO:
60398770

FIGURE NO:
3



C & D TECHNOLOGIES, INC.

1835 Industrial Blvd.
Conyers, Georgia

AECOM

SCALE:	DRAWN BY: DW	DATE: 12/28/2016
1:2,400 1" = 200'	CHECKED BY: JM	DATE: 12/28/2016

G:\C_D_Technologies\Conyers Plant\deliverables\fig5-1_Grdwtr_TCE_plume_September2016.mxd

GROUNDWATER TCE/PCE ANALYTICAL RESULTS SEPTEMBER 2016 WITH APPROXIMATE TCE CONCENTRATION ISOPLETHS

PROJECT NO:
60398770

FIGURE NO:
4

MW-13

Martin Zach Estate

MW-27 SBR

MW-16

MW-28 DBR
MW-28 SBR

MW-34 SBR

Acuity Lighting

Pittman Construction Company

Rockdale Industries Inc./
Robert Pattillo Properties, Inc.

MW-15 MW-8 SBR MW-8 INJ-02 OBS-3 MW-7 SBR MW-7 MW-21 DBR

MW-22 SBR MW-35 SBR

MW-1

Latex Construction Company

Ashley Conyers LLC

DMW-4D

MW-9
MW-9 SBR

MW-26 SBR

MW-38 SBR DMW-2D DMW-2S MW-10 DMW-1D DMW-5D

MW-36 SBR MW-23 SBR

MW-37 SBR DMW-3S DMW-3D

0.0226 0.015 OBS-6 OBS-8 24" metal pipe

Robert Pattillo Properties, Inc.

OBS-7 MW-2 OBS-5 OBS-4 MW-3 MW-25 SBR

Lifetime Foam Products Inc./ Sealy Inc.

C&D-02 MW-19 MW-5 MW-5D MW-14 MW-11 SBR MW-11

MW-6 (abandoned) MW-32 SBR MW-33 SBR

C&D-01 OBS-2 OBS-1 0.0178 0.302

0.0659 C&D-03 INJ-01 MW-18

MW-20

0.114

MW-17

Glen Burnie Venture, LLC

C & D Power Systems Inc.

Frey-Moss Structures, Inc.

Pierce Biggers Property

MW-24 SBR

MW-12

MW-4

MW-30 SBR

Rockdale Industrial Boulevard

MW-29 SBR

LEGEND

N

0.0226 = Lead (mg/L)

Lead Concentration Isopleth (dashed where inferred)

Overburden/Transition Monitoring Well

Shallow Bedrock Monitoring Well

Deep Bedrock Monitoring Well

Buildings

Pipe

Property Boundary (approximate)

Road

Notes:
1) ND = not detected
2) The property boundaries are approximate.

0 100 200 400 Feet

C & D TECHNOLOGIES, INC.

1835 Industrial Blvd.
Conyers, Georgia

AECOM

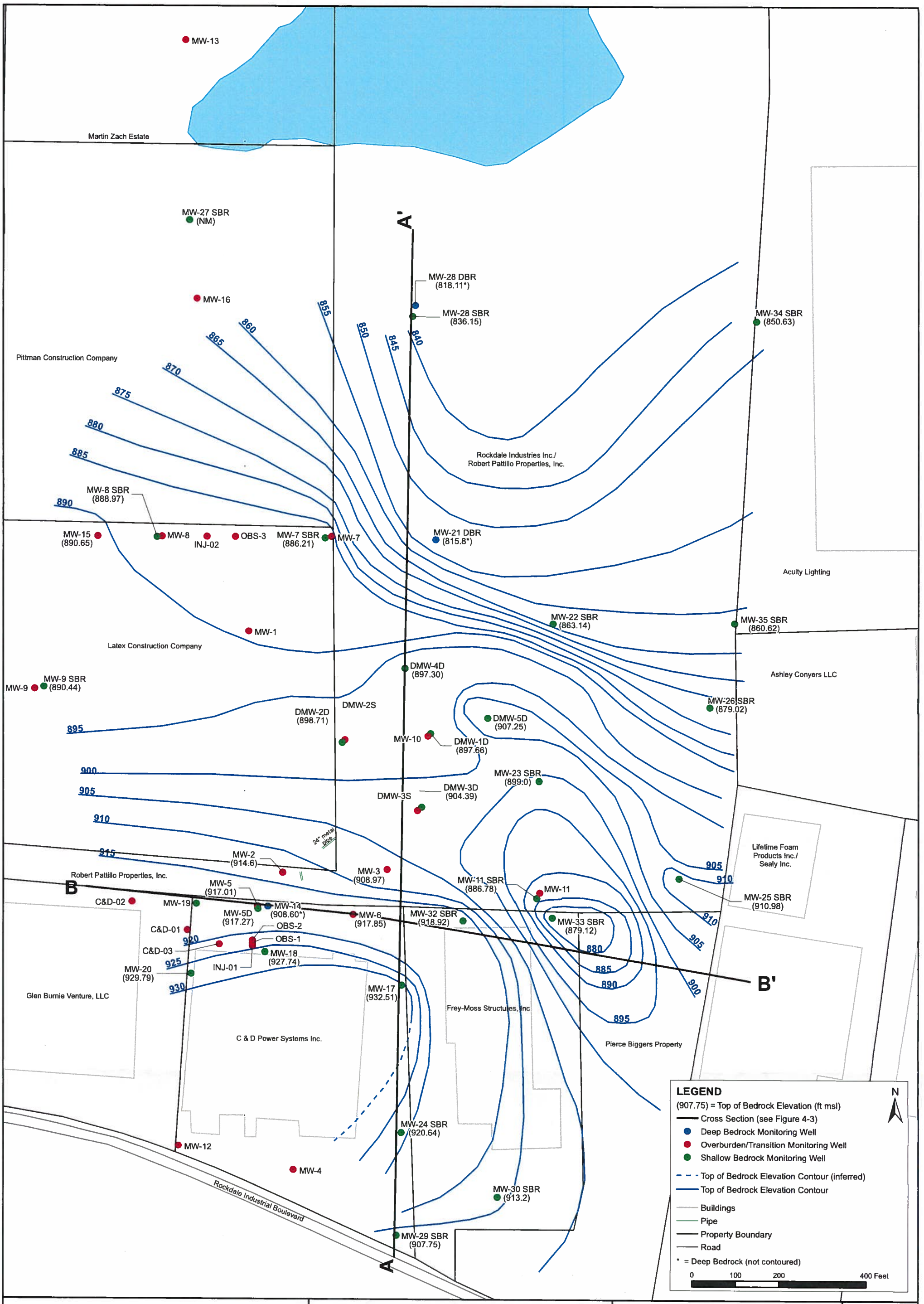
SCALE:	DRAWN BY: DW	DATE: 12/28/2016
1:2,400 1" = 200'	CHECKED BY: JM	DATE: 12/28/2016

G:\C_D_Technologies\Conyers Plant\deliverables\fig5-2_Grdwtr_Lead_September2016.mxd

GROUNDWATER LEAD ANALYTICAL RESULTS SEPTEMBER 2016 WITH APPROXIMATE LEAD CONCENTRATION ISOPLETHS

PROJECT NO:
60398770

FIGURE NO:
5



C & D TECHNOLOGIES, INC.
1835 Industrial Blvd.
Conyers, Georgia

AECOM

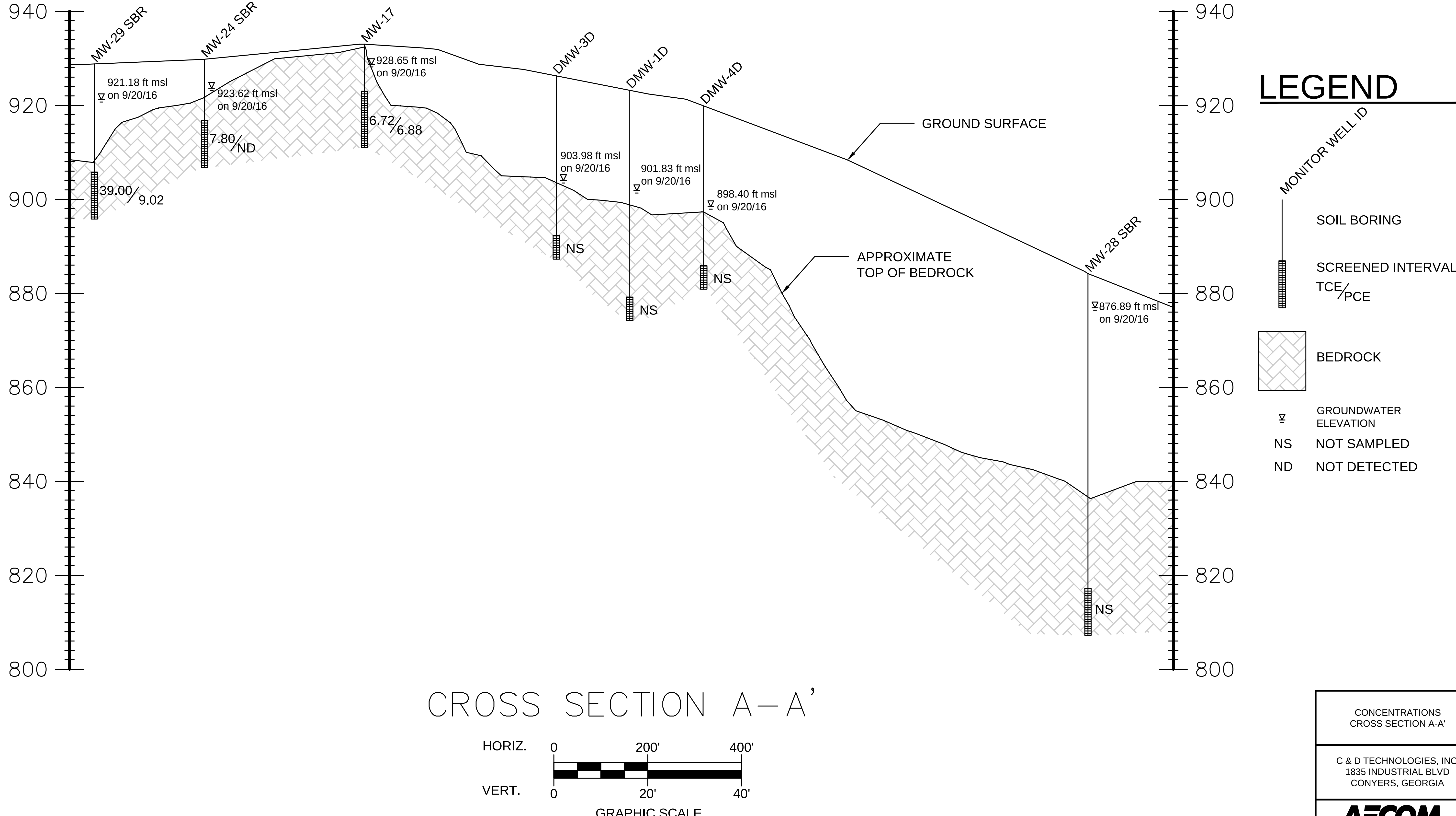
SCALE:	DRAWN BY:	RL	DATE:	12/28/2016
1:2,400 1" = 200'	CHECKED BY:	JW	DATE:	12/28/2016

G:\C_D_Technologies\Conyers Plant\deliverables\fig1-4_BedrockElevationMap_092016.mxd

APPARENT TOP OF SHALLOW BEDROCK ELEVATIONS CONTOUR MAP

PROJECT NO:
20500332
.00001

FIGURE NO:
6



CONCENTRATIONS
CROSS SECTION A-A'

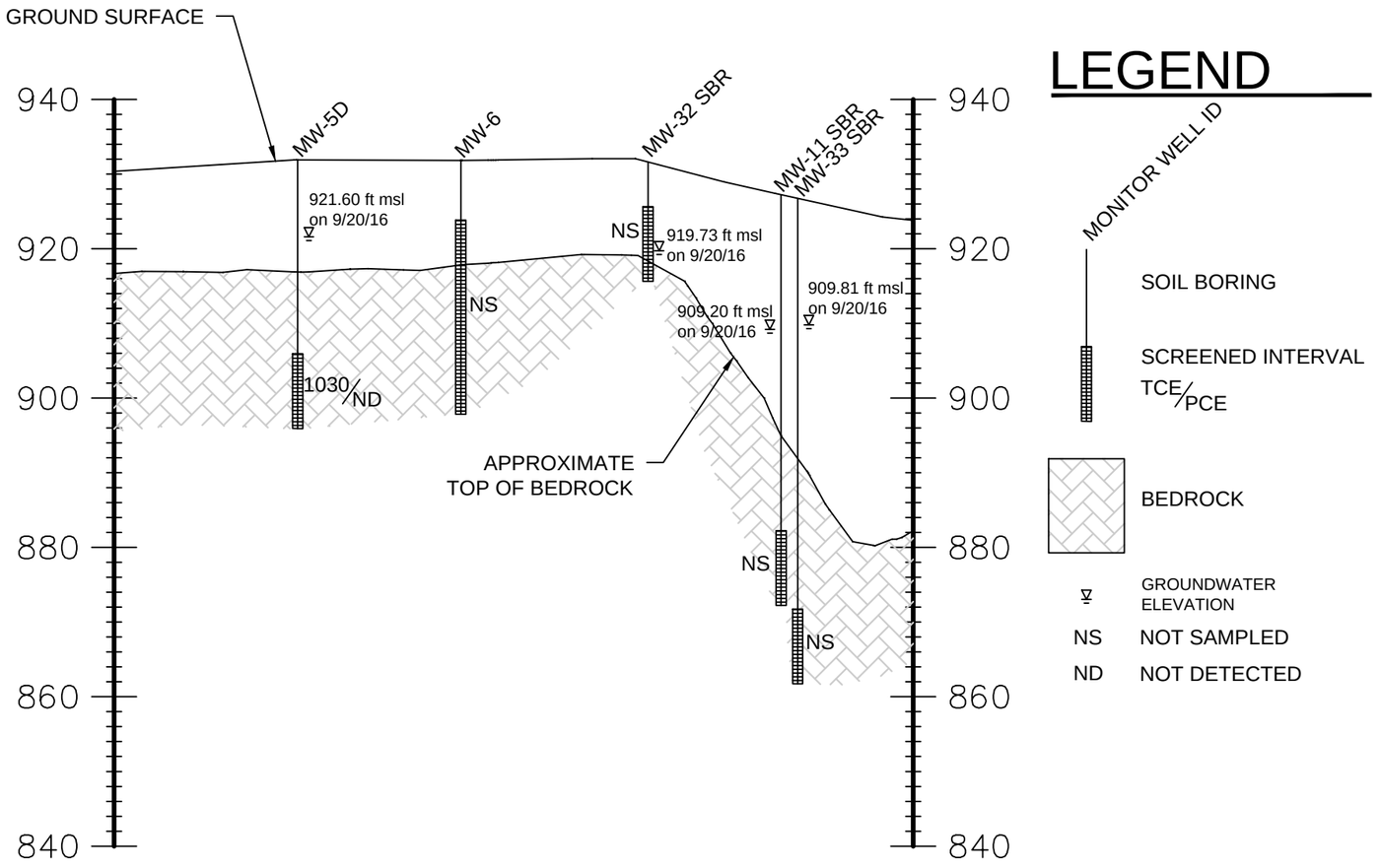
C & D TECHNOLOGIES, INC.
1835 INDUSTRIAL BLVD
CONYERS, GEORGIA

AECOM
1000 CORPORATE CENTRE DR, STE 250
Franklin, TN 37067-6209

DRAWN BY: SD	DATE 01/04/2017
CHECKED BY: CB	JOB NO.: 60398770
SCALE AS SHOWN	

FIGURE 7

S:\2016\C & D Technologies\Conyers\VRP\Groundwater\Semi-annual September 2016\CAD\C&D Conyers.dwg User: DouangvilayS Jan 13, 2017 – 3:06pm



CROSS SECTION B–B'

HORIZ. 0 200' 400'

VERT. 0 20' 40'

GRAPHIC SCALE

CONCENTRATIONS
CROSS SECTION B-B'

C & D TECHNOLOGIES, INC.
1835 INDUSTRIAL BLVD
CONYERS, GEORGIA

AECOM
1000 CORPORATE CENTRE DR, STE 250
Franklin, TN 37067-6209

DRAWN BY: SD	DATE 01/04/2017
CHECKED BY: CB	JOB NO.: 60398770
SCALE AS SHOWN	

FIGURE 8

S:\2016\C & D Technologies\Conyers\RIR\Groundwater\Semi-annual September 2016\CAD\C&D Conyers.dwg User:Doungmaly5 Jan 13, 2017 - 3:06pm

Appendix A

Groundwater Sample Collection Field Sheets

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: CD-01	SAMPLE ID: CD-01	QC SAMPLE?	□ YES □ NO	ID:	

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 5 feet to 10.5 feet	STATIC DEPTH TO WATER (feet): 7.89	PURGE PUMP TYPE OR BAILER: PERISTALTIC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC,DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (10.04 feet − 7.89 feet) X 0.65 liters/foot = 1.4 liters 3x = 4.2 L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = 0 L + (15 feet X 0.005 liters/foot) + 0.3 liters = 0.38 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 1413	PURGING ENDED AT: 1550	TOTAL VOLUME PURGED (liters): 4.25	
WATER QUALITY INSTRUMENT(S):	Horiba U-53 / LaMotte 2020	SERIAL NO(S):	XW5JE2AT / 3979-5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	□ Previously Calibrated							
Precalibration Readings:	29.2	°C	3.96	SU	224	mV	4.39	mS/cm	0.00	NTU	14.80	mg/L
Calibrated Readings:	29.6	°C	4.01	SU	240	mV	4.51	mS/cm	0.00	NTU	11.53	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1415	0.4	0.4	0.2	6.40	149	0.104	2.08	31.4	116	8.169
	1420	0.75	1.15	0.15	5.70	152	0.088	0	29.9	124	9.40
	1425	0.75	1.9	0.15	5.64	149	0.090	0	30.4	107	9.69
				Stop Pump / well Dry							
	1440	0.5	2.4	0.10	5.64	143	0.088	0	32.5	112	9.23
	1445	0.4	2.8	0.08	5.61	147	0.087	0	31.5	99.7	9.56
	1450	0.2	3.0	0.04	5.61	147	0.088	0	31.4	73.4	9.57
	1455	0.25	3.25	0.05	5.38	157	0.091	0	30.2	66.1	9.70
			Stop Pump / well Dry								
	1514	0.25	3.5	0.05	5.56	154	0.092	0	31.7	42.2	9.08
	1519	0.25	3.75	0.05	5.62	152	0.093	0	31.4	34.3	9.38
	1524	0.25	4	0.05	5.61	153	0.094	0	30.8	31.3	9.63
	1550	0.25	4.25	0.05	5.64	154	0.097	0	31.8	24.7	9.04

□ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES: 1417 - Lower Pump intake to 9.75'
14:26 - Pumping dry. Stop Pump to allow recharge.
14:35 - Resume purge (DTW - 8.91') 1526 - Dry / Stop Pump.
14:54 - Pumping dry / stop P.P. 1545 - Re-Start (8.55')
15:09 - Resume Purge (DTW - 8.80)

LaMotte:
1 NTU - 1.11/1.00
10 NTU - 9.41/10.00

CHEMICAL PARAMETER STABILIZATION CRITERIA[1] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
Turbidity: <10 NTU, or stable (±10%)
pH: ± 0.1 SU
Specific Conductance: ± 5% (µS/cm)
Dissolved Oxygen: 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
Temperature (°C)
Oxygen Reduction Potential (mV)

[1] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: CD-01	SAMPLE ID: CD-01	QC SAMPLE?	☐ YES ☐ NO	ID:	

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[2] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Hilliard /AECOM	SAMPLER(S) SIGNATURES:	DATE SAMPLED: 5/20/16	SAMPLING INITIATED AT: 1554
PUMP OR TUBING DEPTH IN WELL (feet): 9	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 1604
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: _____ µm		DUPLICATE: Y (N)

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
CD-01	3	40mL	CG	HCl	6010 / Total Pb	RFPP
CD-01	1	250mL	PE	HNO3	8260 - VOCs	APP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[2] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: MW-2	SAMPLE ID: MW-2	QC SAMPLE?	☐ YES ☒ NO	ID:	

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 5.22 feet to 15.22 feet	STATIC DEPTH TO WATER (feet): 14.54	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (19.84 feet – 14.54 feet) X 0.65 liters/foot ~ ~~0.442~~ 2.15 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = L + (18 feet X 0.0045 liters/foot) + 0.4 liters ~ 0.5 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~15.22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~16.00	PURGING INITIATED AT: 11:10	PURGING ENDED AT: 12:00	TOTAL VOLUME PURGED (liters): 3.65
WATER QUALITY INSTRUMENT(S): Horiba U-53; LaMotte 2020		SERIAL NO(S): 4H6KC+8B; 3964 - 5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	☐ Previously Calibrated

Precalibration Readings:	27.3	°C	3.94	SU	240	mV	4.49	mS/cm	0.00	NTU	8.08	mg/L
Calibrated Readings:	28.1	°C	4.01	SU	239	mV	4.46	mS/cm	0.00	NTU	10.59	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1115	0.75	0.75	0.15	6.22	170	0.431	0.73	30.73	20.0	15.65
	1120	0.75	1.50	0.15	6.21	150	0.435	0.97	29.43	13.7	15.99
	1130	0.65	2.15	0.15	6.06	122	0.444	0.90	29.02	8.27	15.79
	1135	~~0.50~~	2.90	0.15	6.12	106	0.444	0.81	28.52	7.79	15.99
	1155	0.75	3.65	0.15	5.94	87	0.440	0.81	28.51	2.13	15.99
☐	CONTINUED ON REVERSE SIDE										

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; ⅜" = 0.022 ; ½ " = 0.04 ; ⅝" = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES:

11:21 Pause Purge - allow well to recharge
11:36 Pause Purge - allow well to recharge
11:50 well recovered to 15.00' RESUME PURGE

CHEMICAL PARAMETER STABILIZATION CRITERIA[7] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
Turbidity: <10 NTU, or stable (±10%)
pH: ± 0.1 SU
Specific Conductance: ± 5% (µS/cm)
Dissolved Oxygen: 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
Temperature (°C)
Oxygen Reduction Potential (mV)

[7] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-2	SAMPLE ID:	MW-2	QC SAMPLE?	☐ YES ☐ NO ID:

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[8] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
Phillip Van Winkle/AECOM		9/21/16	12:00
PUMP OR TUBING DEPTH IN WELL (feet): 16.00	SAMPLE PUMP FLOW RATE (L per minute): 0.15	TUBING MATERIAL CODE: T	SAMPLING ENDED AT: 12:03
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-2	3	40mL	CG	HCl	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[8] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-3	SAMPLE ID:	MW-3	QC SAMPLE?	☐ YES ☒ NO

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 8.5 feet to 18.5 feet	STATIC DEPTH TO WATER (feet): 15.41	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (18.92 feet − 15.41 feet) X 0.65 liters/foot ~ 2.3 liters 3x ~ 7 L 5x ~ 11.5 L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = 0 L + (22 feet X 0.005 liters/foot) + 0.3 liters ~ 0.41 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1552	PURGING ENDED AT: 1649	TOTAL VOLUME PURGED (liters): 5.5
WATER QUALITY INSTRUMENT(S): Horiba U-53 / LaMotte 2020		SERIAL NO(S):		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	☒ Previously Calibrated		
Precalibration Readings:	°C	SU	mV	mS/cm	NTU	mg/L
Calibrated Readings:	°C	SU	mV	mS/cm	NTU	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1558	0.4	0.4	0.07	4.12	353	1.09	0	31.9	>1000	15.78
	1603	0.5	0.9	0.1	4.10	350	1.09	0	31.2	>1000	15.85
	1608	0.5	1.4	0.1	4.01	348	1.12	0	27.3	107	15.90
	1613	0.5	1.9	0.1	3.99	346	1.15	0	26.6	98.7	16.00
	1618	0.5	2.4	0.1	3.97	347	1.16	0	25.8	31.7	15.96
	1623	0.5	2.9	0.1	3.95	348	1.17	0	25.4	25.1	15.97
	1628	0.5	3.4	0.1	3.91	350	1.19	0	24.5	18.9	15.96
	1633	0.5	3.9	0.1	3.89	351	1.19	0	24.9	14.2	15.96
	1638	0.5	4.4	0.1	3.87	352	1.20	0	24.5	9.67	15.95
	1643	0.5	4.9	0.1	3.86	352	1.20	0	24.0	5.66	15.95
	1648	0.5	5.4	0.1	3.86	353	1.19	0	23.8	4.39	15.95

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; **¼ "** = 0.01 ; **⅜"** = 0.022 ; **½ "** = 0.04 ; **⅝"** = 0.06 ; **¾ "** = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES:
1604 - Lower pump intake to 17'.

CHEMICAL PARAMETER STABILIZATION CRITERIA[1] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[1] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	SAMPLE ID:	QC SAMPLE?	☐ YES ☐ NO	ID:	

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[2] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
R. Hillers/AECOM		9/21/14	1653
PUMP OR TUBING DEPTH IN WELL (feet): 171	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 1657
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-3	3	40 mL	CG	~~40 mL~~ HCl	8260	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[2] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: MW-5	SAMPLE ID: MW-5	QC SAMPLE?	☐ YES ☐ NO	ID:	

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 5 feet to 18 feet	STATIC DEPTH TO WATER (feet): 9.40	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (17.10 feet − 9.40 feet) X 0.65 liters/foot = 5.0 liters 3x ~ 15 L 5x ~ 25L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = 0 L + (18 feet X 0.005 liters/foot) + 0.3 liters = 0.39 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11'	PURGING INITIATED AT: 1317	PURGING ENDED AT:	TOTAL VOLUME PURGED (liters):
WATER QUALITY INSTRUMENT(S): Horiba U-53 LaMotte 2020		SERIAL NO(S):		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	X Previously Calibrated		
Precalibration Readings:	°C	SU	mV	mS/cm	NTU	mg/L
Calibrated Readings:	°C	SU	mV	mS/cm	NTU	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1319	0.4	0.4	0.17	3.73	304	3.77	0	28.2	25.7	9.68
	1324	0.75	1.2	0.15	3.75	288	3.72	0	27.9	22.0	9.82
	1329	1.0	2.2	0.2	3.75	283	3.66	0	27.6	22.4	9.86
	1334	1.0	3.2	0.2	3.76	280	3.62	0	27.4	21.0	9.91
	1339	1.0	4.2	0.2	3.76	276	3.57	0	27.4	19.3	9.93
	1344	1.0	5.2	0.2	3.77	273	3.50	0	27.5	15.7	9.93
	1349	1.0	6.2	0.2	3.77	271	3.46	0	27.6	13.0	9.94
	1354	1.0	7.2	0.2	3.78	269	3.39	0	27.6	10.7	9.94
	1359	1.0	8.2	0.2	3.78	268	3.34	0	27.6	8.68	9.95
	1404	1.0	9.2	0.2	3.78	267	3.27	0	27.9	6.40	9.95
	1409	1.0	10.2	0.2	3.79	266	3.21	0	28.2	6.04	9.94
	1414	1.0	11.2	0.2	3.79	266	3.16	0	28.6	6.03	9.94
	1419	1.0	12.2	0.2	3.80	265	3.12	0	28.6	5.80	9.93
	1424	1.0	13.2	0.2	3.80	264	3.08	0	28.6	3.65	9.95
	1429	1.0	14.2	0.2	3.80	264	3.05	0	28.5	3.10	9.95
☒	CONTINUED ON REVERSE SIDE										

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES:

1345 - Raise Pump intake to 11'. Will proceed with 3 well volume purge.

1435 - All stable, 3 well volumes. End purge.

CHEMICAL PARAMETER STABILIZATION CRITERIA[40] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[40] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: MW-5	SAMPLE ID: MW-5	QC SAMPLE?	☐ YES ☐ NO	ID:	

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1434	1.0	15.2	0.2	3.80	263	3.01	0	28.5	2.01	9.95
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[41] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Hillsard /AECOM	SAMPLER(S) SIGNATURE(S):	DATE SAMPLED: 9/22/16	SAMPLING INITIATED AT: 1439
PUMP OR TUBING DEPTH IN WELL (feet): 11'	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 1445
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION # CONTAINERS	VOLUME	MATERIAL CODE	SAMPLE PRESERVATION PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-5	1	0.5 L	PE	HNO_3	6010 / Total Pb	PP
MW-5	3	40 mL	CG	HCl	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[41] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-5D	SAMPLE ID:	MW-5D	QC SAMPLE?	☑ YES ☐ NO ID: MW-5D DUP

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 26 feet to 36 feet	STATIC DEPTH TO WATER (feet): 10.51	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (34.7 feet – 10.51 feet) X 0.65 liters/foot = 15.72 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = ~ L + (32 feet X 0.0049 liters/foot) + 0.4 liters = 0.544 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~29'	PURGING INITIATED AT: 1315	PURGING ENDED AT: 14:00	TOTAL VOLUME PURGED (liters): 4.0
WATER QUALITY INSTRUMENT(S): Horiba U-53 / LaMotte 2020		SERIAL NO(S): UH6KCK8B / 3964 - 5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	☐ Previously Calibrated

Precalibration Readings:	24.78	°C	4.04	SU	244	mV	4.53	mS/cm	0.00	NTU	2.08	mg/L
Calibrated Readings:	24.79	°C	4.03	SU	241	mV	4.52	mS/cm	0.00	NTU	2.08	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1320	0.50	0.50	0.10	3.70	175	11.0	0.61	28.77	24.4	10.59
	1325	0.50	1.0	0.10	3.72	176	11.0	0.54	28.89	21.8	10.59
	1330	0.50	1.5	0.10	3.74	178	11.0	0.49	29.03	13.6	10.60
	1335	0.50	2.0	0.10	3.75	179	11.0	0.41	29.20	11.5	10.62
	1340	0.50	2.5	0.10	3.74	182	11.2	0.54	29.40	6.79	10.61
	1345	0.50	3.0	0.10	3.76	183	11.0	0.38	29.68	2.31	10.62
	1350	0.50	3.5	0.10	3.78	184	11.0	0.37	29.69	3.90	10.62
	1355	0.50	4.0	0.10	3.78	185	10.9	0.35	29.43	5.80	10.62

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ⅛ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES: Unable to shake off micro bubbles from VOC jars

CHEMICAL PARAMETER STABILIZATION CRITERIA[37] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[37] Region 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-5D	SAMPLE ID:	MW-5D	QC SAMPLE?	☑ YES ☐ NO ID: MW-5D-DUP

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[38] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
Phillip VanWinkle/AECOM		9/22/16	14:00
PUMP OR TUBING DEPTH IN WELL (feet): 29'	SAMPLE PUMP FLOW RATE (L per minute): 0.10	TUBING MATERIAL CODE: T	SAMPLING ENDED AT: 14:10
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) N	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION # CONTAINERS	VOLUME	MATERIAL CODE	SAMPLE PRESERVATION PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-5D	1	250 mL	PE	Nitric Acid	6010 / Total Pb	RFPP
MW-5D	3	40 mL	CG	HCL	8260 - VOCs	RFPP
MW-5D DUP	1	250mL	PE	Nitric Acid	6010/Total Pb	RFPP
MW-5D DUP	3	40 mL	CG	HCL	8260/ VOC's	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[38] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012			
WELL NO:	MW-8 SBR	SAMPLE ID:	~~MW-8 SBR~~ MW-8 SBR	QC SAMPLE?	☑ YES ☐ NO	ID: MW-8 MS MW-8 MSD

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 32 feet to 42 feet	STATIC DEPTH TO WATER (feet): 16.00	PURGE PUMP TYPE OR BAILER: Bladder

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY 3x~47.4 L 5x~79L

1 WELL VOLUME = (40.36 feet − 16.00 feet) X 0.65 liters/foot = 15.8 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = 0.1 L + (50 feet X 0.005 liters/foot) + 0.3 liters = 0.65 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1038	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (liters): 10.75	
WATER QUALITY INSTRUMENT(S):	Horiba U-53 LaMotte 2020	SERIAL NO(S):			

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU) 4.53	Xobel ORP ~~228 mV~~ 240	☐ Previously Calibrated		
Precalibration Readings:	29.7 °C	3.98 SU	254 mV	~~254~~ mS/cm	0.34 NTU	8.66 mg/L
Calibrated Readings:	23.6 °C	4.00 SU	240 mV	140 mS/cm	0.00 NTU	8.76 mg/L

FIELD DATA TABLE

4.49

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
~~103/23~~ 103/25	1045	0.65	0.65	0.08	4.49	314	2.45	1.10	27.3	18.0	16.05
103/25	1050	0.5	1.15	0.1	4.55	314	2.69	0	25.4	31.3	16.07
103/25	1055	0.5	1.65	0.1	4.49	315	2.74	0	24.2	29.3	16.08
103/25	1100	0.5	2.15	0.1	4.47	315	2.75	0	23.9	32.8	16.08
103/25	1105	0.5	2.65	0.1	4.46	316	2.75	0	23.4	37.1	16.09
103/25	1110	0.5	3.15	0.1	4.45	317	2.75	0	23.2	42.7	16.09
103/25	1115	0.5	3.65	0.1	4.45	318	2.76	0	23.0	30.2	16.10
103/25	1120	0.5	4.15	0.1	4.44	319	2.76	0	22.6	31.0	16.10
~~105~~/25	1125	0.6	4.75	0.12	4.43	321	2.77	0	22.2	23.0	16.12
105/25	1130	0.6	~~5.35~~	0.12	4.43	323	2.78	0	21.8	22.7	16.12
105/25	1135	0.6	5.95	0.12	4.42	324	2.80	0	21.3	23.3	16.12
105/25	1140	0.6	6.55	0.12	4.42	326	2.80	0	21.2	20.8	16.13
105/25	1145	0.6	7.15	0.12	4.42	328	2.80	0	21.1	20.0	16.13
105/25	1150	0.6	7.75	0.12	4.42	330	2.79	0	21.2	14.8	16.13
105/25	1155	0.6	8.35	0.12	4.42	332	2.79	0	21.1	15.0	16.13

☒ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES: 1121 - Increase flow rate to 0.12 LPM

Lamotte
1NTU: 1.26/1.00
10NTU: 10.56/10.00

CHEMICAL PARAMETER STABILIZATION CRITERIA[28] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[28] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: MW-8 SBR	SAMPLE ID: MW-8 SBR	QC SAMPLE?	☒ YES ☐ NO	ID: MW-8 SBR MS/MSD	

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
105/25	1200	0.6	8.95	0.12	4.42	334	2.81	0	21.1	14.8	16.13
105/25	1205	0.6	9.55	0.12	4.41	336	2.80	0	21.0	15.4	16.13
105/25	1210	0.6	10.15	0.12	4.42	338	2.80	0	21.1	14.5	16.13
105/25	1215	0.6	10.75	0.12	4.41	340	2.81	0	20.9	15.0	16.13
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[9] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

1215 - All stable except turb >10. Turb stable to 1 10% over last 6 readings. End Purge

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
R. Hilliard /AECOM		9/22/16	1221
PUMP OR TUBING DEPTH IN WELL (feet): 35	**SAMPLE PUMP FLOW RATE (L per minute):** 0.1	**TUBING MATERIAL CODE:** PE / PTFE	**SAMPLING ENDED AT:** 1228
FIELD DECONTAMINATION: (Y) N	**FIELD-FILTERED:** Y (N) **Filtration Equipment Type:** _____ **FILTER SIZE:** _____ µm	**DUPLICATE:** (Y) N MS/MSD	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION # CONTAINERS	VOLUME	MATERIAL CODE	SAMPLE PRESERVATION PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-8SBR	3	40 mL	CG	HCl	8260 - VOCs	BP
" MS	3	40 mL	CG	HCl	8260-VOCs	BP
" MSD	3	40 mL	CG	HCl	8260 - VOCs	BP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[9] Region 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: MW-17	SAMPLE ID: MW-17	QC SAMPLE?	☐ YES ☐ ~~NO~~	ID:	

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 10 feet to 32 feet	STATIC DEPTH TO WATER (feet): 4.43	PURGE PUMP TYPE OR BAILER: Bladder

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (30.9 feet – 4.43 feet) X 0.65 liters/foot ~ 17.2 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = 0.5 L + (32 feet X 0.0045 liters/foot) + 0.4 liters ~ 1.04 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (liters): 34.9
WATER QUALITY INSTRUMENT(S): Horiba U-53 / LaMotte 2020		SERIAL NO(S): 4H6KCK8B / 3964-5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	☐ Previously Calibrated							
Precalibration Readings:	27.3	°C	3.94	SU	240	mV	4.49	mS/cm	0.00	NTU	8.08	mg/L
Calibrated Readings:	28.1	°C	4.01	SU	239	mV	4.46	mS/cm	0.00	NTU	10.59	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
~~30~~ 15 (5 min 2.25)	13:20	0.25	0.25	0.05	6.73	-33	0.383	1.22	31.24	22	5.24
~~40~~ 40	1325	2.25	~~2.5~~ 2.5	0.45	6.46	-26	0.311	1.26	29.98	14.6	7.18
~~40~~ 40	1330	~~2.25~~	4.75	0.45	6.47	-27	0.348	1.01	29.71	20.0	8.22
~~40~~ 40	1335	2.25	6.00	0.45	6.69	-35	0.364	0.95	30.06	14.5	9.82
40	1350	2.25	8.25	0.45	6.51	-21	0.362	1.15	29.62	12.2	11.13
40	1355	2.25	10.5	0.45	6.63	-36	0.384	0.60	28.84	29.4	12.41
40	1400	2.25	12.75	0.45	6.67	-46	0.381	0.74	28.21	35.0	14.93
40	1415	2.00	15.00	0.40	6.68	-53	0.390	0.83	27.43	31.6	17.36
40	1420	2.00	18.9	0.40	6.71	-61	0.398	0.55	27.14	20.9	19.04
40	1425	2.00	20.9	0.40	6.71	-59	0.394	0.68	26.65	20.0	20.25
40	1430	2.00	22.9	0.40	6.71	-61	0.393	0.63	26.13	21.4	21.80
40	1435	2.00	24.9	0.40	6.72	-64	0.398	0.63	26.16	16.5	23.24
40	1440	2.00	26.9	0.40	6.72	-64	0.396	0.61	26.04	12.5	24.50
40	1445	2.00	28.9	0.40	6.73	-70	0.393	0.54	25.63	17.0	25.83
40	1450	2.00	30.9	0.40	6.74	-71	0.390	0.55	25.44	22.9	26.90

☑ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; ⅜" = 0.022 ; ½ " = 0.04 ; ⅝" = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES:

13:22 switch to pump dry method by slowly lowering pump from top of water column
13:40 - 13:45 hold purging to swap out compressors
14:00 - 14:15 hold to adjust psi on pump to get good flow rate

CHEMICAL PARAMETER STABILIZATION CRITERIA[13] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[13] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-17	SAMPLE ID:	MW-17	QC SAMPLE?	☐ YES ☐ NO
ID:					

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
40	1455	2.0	32.9	0.40	6.73	-71	0.385	0.70	25.12	37.0	28.30
40	1500	2.0	34.9	0.40	6.75	-74	0.385	0.65	25.14	26.9	29.71
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[14] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
Phillip Van Winkle /AECOM		9/21/16	17:47
PUMP OR TUBING DEPTH IN WELL (feet): 29.5 ~~30.4~~	SAMPLE PUMP FLOW RATE (L per minute): 0.15	TUBING MATERIAL CODE: T	SAMPLING ENDED AT: 17:50
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-17	3	40mL	CG	HCL	8260 - VOCs	BP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[14] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-19	SAMPLE ID:	MW-19	QC SAMPLE?	□ YES □ NO
ID:					

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 8 feet to ~~20~~ 17.2 feet	STATIC DEPTH TO WATER (feet): 9.64'	PURGE PUMP TYPE OR BAILER: Peristaltic ~~BLADDER~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY 4.91

1 WELL VOLUME = (~~23~~17.2 feet – 9.64 feet) X .65 liters/foot ~ ~~3.684~~ liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = ~~0.5.5~~ L + (~~0.0049~~ feet X 0.004 liters/foot) + 0.4 liters ~ 0.47 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.5	PURGING INITIATED AT: 14:30	PURGING ENDED AT: 15:00	TOTAL VOLUME PURGED (liters): 3.75	
WATER QUALITY INSTRUMENT(S): Horiba U-53 LaMotte 2020		SERIAL NO(S):	4H6KCK85 ~~246-U~~ 3964-5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP ~~(220 mV)~~	□ Previously Calibrated			
Precalibration Readings:	27.9 °C	3.94 SU	259 mV	4.56 mS/cm	0.00 NTU	8.08 mg/L	
Calibrated Readings:	28.2 °C	4.01 SU	240 mV	4.50 mS/cm	0.00 NTU	10.80 mg/L	

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs) LaMotte	DEPTH TO WATER (feet)
	14:35	0.75	0.75	0.15	3.44	319	1.39	0.83	27.47	14.8	9.58
	1440	0.75	1.5	0.20	3.65	310	1.39	0.64	26.57	9.48	9.58
	1445	0.75	2.25	0.15	3.75	304	1.40	0.62	26.32	5.96	9.58
	1450	0.75	3.0	0.15	3.79	301	1.41	0.57	25.71	3.30	9.58
	1455	0.75	3.75	0.15	3.84	298	1.43	0.57	25.58	2.8	9.58

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; **¼ "** = 0.01 ; **⅜"** = 0.022 ; **½ "** = 0.04 ; **⅝"** = 0.06 ; **¾ "** = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES:

CHEMICAL PARAMETER STABILIZATION CRITERIA[4] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[4] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-19	SAMPLE ID:	MW-19	QC SAMPLE?	☐ YES ☐ NO
ID:					

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[5] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
Phillip Van Winkle /AECOM		9/20/16	14:55
PUMP OR TUBING DEPTH IN WELL (feet): 15.5	SAMPLE PUMP FLOW RATE (L per minute): 0.15	TUBING MATERIAL CODE: T	SAMPLING ENDED AT: 15:00
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-19	1	250 mL	PE	HNO_3	6010 / Total Pb	RFPP
MW-19	3	40mL	CG	HCL	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[5] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

LOW IMPACT GROUNDWATER SAMPLING LOG

SITE NAME: C&D Technologies Conyers, GA	SITE LOCATION: 1835 Industrial Blvd Conyers, GA	
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 9/21/16

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 10 feet to 30 feet	STATIC DEPTH TO WATER (feet): 8.00	PURGE PUMP TYPE OR BAILER: PERISTALTIC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (30 feet – 8.00 feet) X 0.65 liters/foot ~ 14.3 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = (28 feet X 0.0045 liters/foot) + 0.4 liters ~ 0.526 liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 08:20	PURGING ENDED AT: 0905	TOTAL VOLUME PURGED (liters): 6.25

WATER QUALITY INSTRUMENT(S):	~~YSI 556~~ Horiba-U5000	SERIAL NO(S):	3964-5113
	LaMotte Turbidimeter	LaMotte	LIH6KCK88

CALIBRATION DETAILS:	Calibration Standards Used: AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)					☐ Previously Calibrated
Precalibration Readings:	27.3 °C	3.94 SU	240 mV	4.44 mS/cm	0.00 NTU	8.08 mg/L
Calibrated Readings:	29.1 °C	4.01 SU	239 mV	4.46 mS/cm	0.00 NTU	10.59 mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (mS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L)
	0825	0.25	0.25	0.15	8.40	25.6	3.77	318	3.93	13.7	1.34
	0830	0.75	1.0	0.15	8.55	25.6	3.96	313	4.00	11.9	1.05
	0835	0.75	1.75	0.15	8.75	25.9	3.98	313	4.01	12.8	0.80
	0840	0.75	2.50	0.15	8.9	26.01	4.03	310	3.99	11.93	0.67
	0845	0.75	3.25	0.15	8.98	26.26	4.07	307	3.90	9.77	0.67
	0850	0.75	4.00	0.15	9.03	26.40	4.09	304	3.76	8.72	0.66
	0855	0.75	4.75	0.15	9.07	26.59	4.12	301	3.36	5.82	0.70
	0900	0.75	5.50	0.15	9.12	26.73	4.16	299	2.87	4.31	0.85
	0905	0.75	6.25	0.15	9.17	26.87	4.20	301	2.30	1.90	1.09

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.0006 ; **0.17"** = 0.0045 ; **¼"** = 0.0097 ; **⅜"** = 0.0217 ; **½"** = 0.0386 ; **⅝"** = 0.0603 ; **¾"** = 0.0869 ; **⅞"** = 0.1182 ; **1"** = 0.1544

NOTES:

STABILIZATION CRITERIA (THREE CONSECUTIVE READINGS)

Drawdown: ±0.02'
Temp.: N/A
pH: ± 0.1 units
Turbidity: <10 NTU
Dissolved Oxygen: 0.2 mg/L or 10% of saturation (whichever is greater)
ORP: N/A
Specific Conductance: ± 5%

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Phillip Van Winkle		10:00	10:05
PUMP OR TUBING DEPTH IN WELL (feet): 20	SAMPLE PUMP FLOW RATE (L per minute): 0.15	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-20	1	250	PE	Nitric Acid	6020A Lead	RFPP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER
at normal atmospheric conditions[1]

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[1] Rounded to the nearest 0.1 mg/L.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-24	SAMPLE ID:	MW-24	QC SAMPLE?	☐ YES ☐ NO

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 5.74	PURGE PUMP TYPE OR BAILER: peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (23.15 feet – 5.74 feet) X 0.65 liters/foot ~ 11.3 liters 3x ~ 34 L 5x ~ 56.5 L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = Ø L + (28 feet X 0.005 liters/foot) + 0.3 liters ~ 0.44 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:24	PURGING ENDED AT: 1332	TOTAL VOLUME PURGED (liters): 8.8
WATER QUALITY INSTRUMENT(S):	Horiba U-53 LaMotte 2020	SERIAL NO(S):		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	X Previously Calibrated		
Precalibration Readings:	°C	SU	mV	mS/cm	NTU	mg/L
Calibrated Readings:	°C	SU	mV	mS/cm	NTU	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1231	0.4	0.4	0.08	4.14	270	0.377	4.34	30.9	7.80	5.78
	1236	0.5	0.9	0.1	4.15	272	0.375	3.11	30.7	5.78	5.78
	1241	0.5	1.4	0.1	4.15	273	0.382	2.92	29.4	7.40	5.78
	1246	0.5	1.9	0.1	4.14	274	0.382	2.63	29.2	5.16	5.78
	1251	0.75	2.65	0.15	4.12	278	0.380	2.51	28.5	3.52	5.79
	1256	0.75	3.4	0.15	4.14	277	0.381	2.17	28.1	2.56	5.79
	1301	0.75	4.15	0.15	4.15	278	0.381	2.02	28.1	1.55	5.79
	1306	0.75	4.9	0.15	4.16	278	0.381	1.64	28.2	1.52	5.79
	1311	0.75	5.65	0.15	4.13	281	0.383	1.71	28.3	0.77	5.79
	1316	0.75	6.4	0.15	4.14	281	0.383	1.39	28.7	1.25	5.79
	1321	0.75	7.15	0.15	4.13	283	0.379	1.76	28.6	0.88	5.79
	1326	0.75	7.9	0.15	4.15	283	0.379	1.64	28.4	1.14	5.79
	1331	0.75	8.65	0.15	4.14	284	0.380	1.61	28.0	0.58	5.79

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES:

CHEMICAL PARAMETER STABILIZATION CRITERIA[16] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[16] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-24	SAMPLE ID:	MW-24	QC SAMPLE?	□ YES □ NO
ID:					

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[17] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
R. Hilliard /AECOM		9/21/16	13:37
PUMP OR TUBING DEPTH IN WELL (feet): 18'	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 13:40
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-24SBR	3	40 mL	CG	HCl	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[17] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-29	SAMPLE ID:	MW-29 SBR	QC SAMPLE?	□ YES □ NO ID:

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 23 feet to 33 feet	STATIC DEPTH TO WATER (feet): 7.40	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (31.92 feet – 7.40 feet) X liters/foot ~ 15.9 liters 3x ~ 48 L 5x ~ 80 L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = Ø L + (33 feet X 0.005 liters/foot) + 0.3 liters ~ 0.47 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27	PURGING INITIATED AT: 1408	PURGING ENDED AT: 1448	TOTAL VOLUME PURGED (liters): 4.1
WATER QUALITY INSTRUMENT(S):	Horiba U-53 LaMotte 2020	SERIAL NO(S):		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	X Previously Calibrated		
Precalibration Readings:	°C	SU	mV	mS/cm	NTU	mg/L
Calibrated Readings:	°C	SU	mV	mS/cm	NTU	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1412	0.5	0.5	0.5	3.60	370	1.70	0.38	31.2	5.15	7.64
	1417	0.5	1.0	0.1	3.62	330	1.81	0	30.1	2.48	7.69
	1422	0.5	1.5	0.1	3.57	339	1.85	0	29.4	2.61	7.67
	1427	0.5	2.0	0.1	3.56	344	1.89	0	28.8	0.76	7.69
	1432	0.5	2.5	0.1	3.56	348	1.86	0	28.8	1.07	7.69
	1437	0.5	3.0	0.1	3.56	351	1.81	0	28.7	0.78	7.68
	1442	0.5	3.5	0.1	3.57	355	1.79	0	29.2	0.66	7.68
	1447	0.5	4.0	0.1	3.56	358	1.81	0	28.8	0.55	7.68

□ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES:

CHEMICAL PARAMETER STABILIZATION CRITERIA[19] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[19] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO: MW-29	SAMPLE ID: MW-29 SBR	QC SAMPLE?	☐ YES ☐ NO	ID:	

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[20] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Hilliard /AECOM	SAMPLER(S) SIGNATURES:	DATE SAMPLED: 9/21/16	SAMPLING INITIATED AT: 1452
PUMP OR TUBING DEPTH IN WELL (feet): 27	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 1454
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-29SBR	3	40mL	CG	HCl	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[20] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

9/2/14
D. Gillard

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-30	SAMPLE ID:	MW-30	QC SAMPLE?	□ YES □ NO

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet	STATIC DEPTH TO WATER (feet): 6.18	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (26.65 feet − 6.18 feet) X 0.65 liters/foot = 13.3 liters 3x = 39.9L 5x = 66.5L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = 0' L + (32 feet X 0.005 liters/foot) + 0.3 liters = 0.46 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1038	PURGING ENDED AT: 1148	TOTAL VOLUME PURGED (liters): 7.0
WATER QUALITY INSTRUMENT(S):	Horiba U-53 LaMotte 2020	SERIAL NO(S):	XM5JE2AJ 3979-5713	

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (~~220~~ mV)~~240~~ □ Previously Calibrated			
Precalibration Readings:	25.1 °C	3.94 SU	228 mV	4.55 mS/cm	0.00 NTU	13.09 mg/L
Calibrated Readings:	25.3 °C	4.01 SU	240 mV	4.50 mS/cm	0.00 NTU	11.16 mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	1042	0.4	0.4	0.1	6.35	158	0.387	0	26.1	3.85	6.32
	1047	0.5	0.9	0.1	6.40	157	0.376	0	25.4	1.75	6.34
	1052	0.5	1.4	0.1	6.38	158	0.353	0	24.9	1.76	6.35
	1057	0.5	1.9	0.1	6.27	163	0.315	0	24.9	4.08	6.35
	1102	0.5	2.4	0.1	6.14	170	0.281	0	24.8	2.39	6.36
	1107	0.5	2.9	0.1	6.05	174	0.257	0	24.8	1.85	6.35
	1112	0.5	3.4	0.1	5.96	178	0.241	0	24.7	1.02	6.35
	1117	0.5	3.9	0.1	5.88	182	0.227	0	24.7	1.15	6.36
	1122	0.5	4.4	0.1	5.79	187	0.216	0	24.7	1.08	6.35
	1127	0.5	4.9	0.1	5.71	191	0.203	0	24.7	1.11	6.36
	1132	0.5	5.4	0.1	5.63	194	0.194	0	24.8	1.09	6.36
	1137	0.5	5.9	0.1	5.58	196	0.187	0	24.8	1.21	6.36
	1142	0.5	6.4	0.1	5.54	197	0.183	0	24.9	1.14	6.36
	1147	0.5	6.9	0.1	5.55	195	0.182	0	25.0	0.98	6.36

□ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES: 1042 - Effluent clear, no odor.

LaMotte 2020 ve
1 NTU: 1.01/1.00
10 NTU: 9.64/10.00

CHEMICAL PARAMETER STABILIZATION CRITERIA[10] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
Turbidity: <10 NTU, or stable (±10%)
pH: ± 0.1 SU
Specific Conductance: ± 5% (µS/cm)
Dissolved Oxygen: 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
Temperature (°C)
Oxygen Reduction Potential (mV)

[10] Region 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-30	SAMPLE ID:	MW-30	QC SAMPLE?	□ YES □ NO
ID:					

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[11] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
R. Hillyard /AECOM		9/21/16	1152
PUMP OR TUBING DEPTH IN WELL (feet): 21'	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 1154
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-30BR	3	40 mL	CG	HCl	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[11] Region 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-36	SAMPLE ID:	MW-36	QC SAMPLE?	☐ YES ~~☒ NO~~ ID:

PURGING DATA

WELL DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	29.4 feet to 39.4 feet	18.73	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (42 feet – 18.73 feet) X 0.65 liters/foot ~ 15.12 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = L + (32 feet X 0.0045 liters/foot) + 0.4 liters ~ 0.544 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (liters):
30	30			

WATER QUALITY INSTRUMENT(S):	Horiba U-58 LaMotte 2020	SERIAL NO(S):	4H6KCK8B 3964-5113

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	☐ Previously Calibrated							
Precalibration Readings:	27.3	°C	3.94	SU	240	mV	4.49	mS/cm	0.00	NTU	8.08	mg/L
Calibrated Readings:	29.1	°C	4.01	SU	239	mV	4.46	mS/cm	0.00	NTU	10.59	mg/L

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
–	1615	0.75	0.75	0.15	3.70	222	0.924	6.12	27.43	4.94	18.83
	1625	~~1.00~~	1.75	0.20	3.79	223	1.01	6.38	23.75	7.88	18.86
	1630	1.00	2.75	0.20	3.84	221	1.21	5.12	23.12	13.5	18.85
	1635	1.00	3.75	0.20	3.87	220	1.58	3.48	23.04	17.0	18.85
	1640	1.00	4.75	0.20	3.91	218	1.71	3.77	23.22	17.9	18.85
	1645	0.75	5.50	0.15	3.93	218	1.75	5.31	23.74	13.9	18.83
	1650	0.75	6.25	0.15	3.96	217	1.76	2.60	24.38	16.2	18.84
	1655	0.75	7.00	0.15	3.97	217	~~1.76~~	2.48	24.51	11.34	18.84
	1700	0.75	7.75	0.15	3.99	217	1.77	2.48	24.66	11.2	18.83
	1705	0.75	8.50	0.15	4.00	217	1.76	2.46	24.73	9.99	18.83
	1710	0.75	9.25	0.15	4.03	217	1.71	2.32	26.23	8.22	18.83
	1715	0.75	10.00	0.15	4.04	218	1.71	2.22	26.26	9.33	18.83

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; **⅜"** = 0.022 ; ½ " = 0.04 ; **⅝"** = 0.06 ; ¾ " = 0.09 ; **⅞"** = 0.12 ; **1"** = 0.16

NOTES:
16:16 hold while swapping out battery
16:20 resume purging

CHEMICAL PARAMETER STABILIZATION CRITERIA[22] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
Turbidity: <10 NTU, or stable (±10%)
pH: ± 0.1 SU
Specific Conductance: ± 5% (µS/cm)
Dissolved Oxygen: 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
Temperature (°C)
Oxygen Reduction Potential (mV)

[22] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-36	SAMPLE ID:	MW-36	QC SAMPLE?	□ YES □ NO
ID:					

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[23] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
Phillip Van Winkle/AECOM		9/21/16	17:17
PUMP OR TUBING DEPTH IN WELL (feet): 30.0	SAMPLE PUMP FLOW RATE (L per minute): 0.15	TUBING MATERIAL CODE: T	SAMPLING ENDED AT: 17:21
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-36	3	40mL	CG	HCL	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[23] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-37	SAMPLE ID:	MW-37	QC SAMPLE?	☐ YES ~~NO~~	ID:

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 37 feet to 47 feet	STATIC DEPTH TO WATER (feet): 15.56	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (49.7 feet – 15.56 feet) X 0.65 liters/foot = ~~26.44~~ liters 22.19

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = ~ L + (53 feet X 0.0045 liters/foot) + 0.4 liters = 0.64 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0850	PURGING ENDED AT:	TOTAL VOLUME PURGED (liters):
WATER QUALITY INSTRUMENT(S): Horiba U-53 LaMotte 2020		SERIAL NO(S): UH6KCK8B 3964-5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	☐ Previously Calibrated			
Precalibration Readings:	24.78 °C	4.04 SU	~~228~~ 244 mV	4.53 mS/cm	0.00 NTU	2.08 mg/L	
Calibrated Readings:	24.79 °C	4.03 SU	~~228~~ 241	4.52 mS/cm	0.00 NTU	2.08 mg/L	

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	0855	~~1.0~~	1.0	0.2	3.05	340	1.05	0.79	22.24	17.0	15.49
	0855	0.75	1.75	0.15	3.34	325	1.14	0.63	21.93	13.2	15.82
	0900	0.75	2.50	0.15	3.48	315	1.16	0.56	21.84	9.99	15.81
	0905	0.75	3.25	0.15	3.58	314	1.17	0.51	21.80	8.87	15.82
	0910	0.75	5.0	0.15	3.65	3.12	1.18	0.48	21.81	7.66	15.82
	0915	0.75	5.75	0.15	3.67	310	1.19	0.47	21.82	7.32	15.82
	0920	0.75	6.50	0.15	3.68	309	1.19	0.46	21.85	6.83	15.82

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; ⅜" = 0.022 ; ½ " = 0.04 ; ⅝" = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES:

CHEMICAL PARAMETER STABILIZATION CRITERIA[25] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[25] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-37	SAMPLE ID:	MW-37	QC SAMPLE?	☐ YES ☐ NO ID:

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[26] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
Phillip Van Wie / AECOM		9/22/16	0920
PUMP OR TUBING DEPTH IN WELL (feet): 44.7	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: T	SAMPLING ENDED AT: 0925
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-37	3	40mL	CG	HCl	8260 - VOC	RFPP
					S	

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[26] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

AECOM GROUNDWATER SAMPLING LOG

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-38	SAMPLE ID:	MW-38	QC SAMPLE?	□ YES □ NO ID:

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 30.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 14.13	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (43.00 feet − 14.13 feet) X 0.65 liters/foot ~ 18.8 liters 3x ~ 56.4L 5x ~ 94L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = PUMP VOLUME + (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = Ø L + (45 feet X 0.005 liters/foot) + 0.3 liters ~ 0.53 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 0844	PURGING ENDED AT: 0946	TOTAL VOLUME PURGED (liters): 6.2
WATER QUALITY INSTRUMENT(S): Horiba U-53, LaMotte 2020		SERIAL NO(S):		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)	Xobel ORP (228 mV)	□ Previously Calibrated			
Precalibration Readings:	23.7 °C	3.98 SU	254 mV	4.53 mS/cm	0.34 NTU	8.66 mg/L	
Calibrated Readings:	23.4 °C	4.00 SU	240 mV	4.49 mS/cm	0.00 NTU	8.76 mg/L	

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
	0850	0.6	0.6	0.1	3.58	350	2.54	0	21.8	28.3	14.52
	0855	0.5	1.1	0.1	3.59	348	2.54	0	21.5	15.0	14.60
	0900	0.5	1.6	0.1	3.59	347	2.54	0	21.2	10.4	14.65
	0905	0.5	2.1	0.1	3.58	348	2.52	0	21.2	10.8	14.65
	0910	0.5	2.6	0.1	3.59	348	2.50	0	21.3	10.9	14.66
	0915	0.5	3.1	0.1	3.59	349	2.48	0	21.5	12.6	14.65
	0920	0.5	3.6	0.1	3.59	349	2.46	0	21.7	13.5	14.66
	0925	0.5	4.1	0.1	3.59	350	2.42	0	21.9	10.52	14.66
	0930	0.5	4.6	0.1	3.60	352	2.38	0	22.1	7.45	14.67
	0935	0.5	5.1	0.1	3.60	353	2.36	0	22.4	6.52	14.66
	0940	0.5	5.6	0.1	3.60	353	2.33	0	22.7	6.37	14.66
	0945	0.5	6.1	0.1	3.60	354	2.32	0	23.0	6.06	14.66

☐ CONTINUED ON REVERSE SIDE

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.001 ; **0.17"** = 0.005 ; ¼ " = 0.01 ; ⅜" = 0.022 ; ½ " = 0.04 ; ⅝" = 0.06 ; ¾ " = 0.09 ; ⅞" = 0.12 ; **1"** = 0.16

NOTES:

Field check pH (Litmus ~ 3.5 SU).

CHEMICAL PARAMETER STABILIZATION CRITERIA[31] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

[31] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

SITE NAME:	C & D Technologies Inc.	SITE LOCATION:	1835 Industrial Boulevard NE Conyers, Rockdale County, GA 30012		
WELL NO:	MW-38	SAMPLE ID:	MW-38	QC SAMPLE?	□ YES □ NO
ID:					

FIELD DATA TABLE (continued)

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TEMP. (°C)	TURBIDITY (NTUs)	DEPTH TO WATER (feet)
☐	CONTINUED ON ADDITIONAL SHEETS										

CHEMICAL PARAMETER STABILIZATION CRITERIA[32] (THREE CONSECUTIVE READINGS **AFTER DEPTH TO WATER HAS STABILIZED**)

Required:
- **Turbidity:** <10 NTU, or stable (±10%)
- **pH:** ± 0.1 SU
- **Specific Conductance:** ± 5% (µS/cm)
- **Dissolved Oxygen:** 0.2 mg/L or ± 10% of saturation (whichever is greater)

Record Only:
- **Temperature** (°C)
- **Oxygen Reduction Potential** (mV)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	DATE SAMPLED:	SAMPLING INITIATED AT:
R. Hilliard /AECOM		9/22/14	0953
PUMP OR TUBING DEPTH IN WELL (feet): 38	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: PE/PTFE	SAMPLING ENDED AT: 0956
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
MW-38BR	3	40mL	CG	HCl	8260 - VOCs	RFPP

REMARKS:

TOTAL DEPTH OF WELL AFTER SAMPLE COLLECTION

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **BP** = Bladder Pump **SM** = Straw Method (Tubing Gravity Drain); **RFPP** = Reverse Flow Peristaltic Pump; **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER (at normal atmospheric conditions)

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[32] Regioni 4 US Environmental Protection Agency Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (SESDPROC-301-R3), Section 3.2.1.1.2.

LOW IMPACT GROUNDWATER SAMPLING LOG

SITE NAME: C&D Technologies Conyers, GA		SITE LOCATION: 1835 Industrial Blvd Conyers, GA	
ELL NO: OBS-8	SAMPLE ID: OBS-8		DATE: 9/22/16

PURGING DATA

WELL DIAMETER (inches): 2"	WELL SCREEN INTERVAL DEPTH: 5 feet to 20 feet	STATIC DEPTH TO WATER (feet): 12.52	PURGE PUMP TYPE OR BAILER: PERISTALTIC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (22.83 feet – 12.52 feet) X 0.65 liters/foot ~ 6.7 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = (TOTAL LENGTH OF TUBING X TUBING CAPACITY) + FLOW THROUGH CELL VOLUME

1 EQUIPMENT VOLUME = (31 feet X 0.0045 liters/foot) + 0.4 liters ~.54 liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.8	PURGING INITIATED AT: 11:00	PURGING ENDED AT: 12:25	TOTAL VOLUME PURGED (liters): 11.25
WATER QUALITY INSTRUMENT(S): ~~YSI-556~~ Horiba U-58 LaMotte Turbidimeter		SERIAL NO(S): UHGKCK8B 3964-5113		

CALIBRATION DETAILS:	Calibration Standards Used:	AutoCAL. (4.00 SU, 4.49 ms/cm, 0.0 NTU)							☑ Previously Calibrated
Precalibration Readings:	24.78 °C	4.04 SU	244 mV	4.53 mS/cm	0.00 NTU	2.08 mg/L			
Calibrated Readings:	24.79 °C	4.03 SU	241 mV	4.52 mS/cm	0.00 NTU	2.08 mg/L			

FIELD DATA TABLE

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	TOTAL VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	OXYGEN REDUCTION POTENTIAL (mV)	COND. (mS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L)
	11:05	0.75	0.75	0.15	12.70	23.05	4.15	167	3.18	50.6	0.81
	11:10	0.75	1.50	0.15	12.79	22.60	4.19	144	3.19	44.7	0.57
	11:15	0.75	2.25	0.15	12.72	22.29	4.20	137	3.18	35.0	0.55
	11:20	0.75	3.0	0.15	12.80	22.35	4.21	130	3.21	37.6	0.46
	11:25	0.75	3.75	0.15	12.94	21.95	4.23	125	3.20	59.8	0.42
	11:30	0.75	4.50	0.15	12.91	22.17	4.22	122	3.24	69.1	0.40
	11:35	0.75	5.25	0.15	12.88	22.17	4.22	120	3.20	58.3	0.40
	11:40	0.75	6.00	0.15	12.87	22.18	4.22	118	3.20	41.9	0.41
	11:45	0.75	6.75	0.15	12.88	22.19	4.22	116	3.21	25.9	0.41
	11:50	0.75	7.50	0.15	12.88	22.08	4.22	115	3.20	19.2	0.42
	11:55	0.75	8.25	0.15	12.89	22.07	4.23	113	3.12	16.6	0.42
	12:00	0.50	8.75	0.10	12.85	22.58	4.23	111	3.03	14.6	0.41
	12:05	0.50	9.25	0.10	12.84	22.50	4.24	110	3.01	13.2	0.43
	12:10	0.50	9.75	0.10	12.85	22.60	4.25	109	2.97	11.9	0.43
	12:15	0.50	10.25	0.10	12.85	22.47	4.25	107	2.95	10.0	0.42
	12:20	0.50	10.75	0.10	12.85	22.81	4.27	105	2.89	9.17	0.42
	12:25	0.50	11.25	0.10	12.85	22.91	4.27	105	2.88	8.75	0.40

WELL CAPACITY (L Per Ft): **0.75"** = 0.10; **1"** = 0.20; **1.25"** = 0.30; **2"** = 0.65; **3"** = 1.45; **4"** = 2.50; **5"** = 3.90; **6"** = 5.60; **8"** = 9.75; **10"** = 15.40; **12"** = 21.80
TUBING CAPACITY (L Per Ft): **1/16"** = 0.0006 ; **0.17"** = 0.0045 ; ¼ " = 0.0097 ; **⅜"** = 0.0217 ; ½ " = 0.0386 ; **⅝"** = 0.0603 ; ¾ " = 0.0869 ; **⅞"** = 0.1182 ; **1"** = 0.1544

NOTES:

STABILIZATION CRITERIA (THREE CONSECUTIVE READINGS)

Drawdown: ±0.02'
Temp.: N/A
pH: ± 0.1 units
Turbidity: <10 NTU
Dissolved Oxygen: 0.2 mg/L or 10% of saturation (whichever is greater)
ORP: N/A
Specific Conductance: ± 5%

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Philip Van Winkle / AECOM		1225	1230
PUMP OR TUBING DEPTH IN WELL (feet): 15.8	SAMPLE PUMP FLOW RATE (L per minute): 0.1	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE ID	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	# CONTAINERS	VOLUME	MATERIAL CODE	PRESERVATIVE USED		
OBS-8	3	40mL	CG	HCL	VOC's 8260	RFPP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicon; **T** = Teflon; **O** = Other (Specify)

SAMPLING / PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

SOLUBILITY OF OXYGEN IN WATER
at normal atmospheric conditions[1]

Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L	Temperature °C	O2 Solubility mg/L
0	14.6	17	9.7	34	7.1
1	14.2	18	9.5	35	7.0
2	13.8	19	9.3	36	6.8
3	13.5	20	9.1	37	6.7
4	13.1	21	8.9	38	6.6
5	12.8	22	8.7	39	6.5
6	12.4	23	8.6	40	6.4
7	12.1	24	8.4	41	6.3
8	11.8	25	8.3	42	6.2
9	11.6	26	8.1	43	6.1
10	11.3	27	8.0	44	6.0
11	11.0	28	7.8	45	5.9
12	10.8	29	7.7	46	5.8
13	10.5	30	7.6	47	5.7
14	10.3	31	7.4	48	5.6
15	10.1	32	7.3	49	5.5
16	9.9	33	7.2	50	5.4

[1] Rounded to the nearest 0.1 mg/L.

Appendix B

Laboratory Analytical Reports and Chain-of-Custody Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-112439-1
Client Project/Site: C&D Technologies

For:
URS Corporation
1000 Corp Centre Drive
One Corp Centre Ste
Franklin, Tennessee 37067

Attn: Mr. Craig Bernhoft

Heather Baker

Authorized for release by:
10/5/2016 11:18:51 AM

Heather Baker, Project Manager I
(615)301-5043
heather.baker@testamericainc.com

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Sample Summary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-112439-1	MW-37	Water	09/22/16 09:20	09/23/16 09:25
490-112439-2	MW-38 SBR	Water	09/22/16 09:53	09/23/16 09:25
490-112439-3	MW-8 SBR	Water	09/22/16 12:21	09/23/16 09:25
490-112439-4	OBS-8	Water	09/22/16 12:25	09/23/16 09:25
490-112439-5	MW-5D	Water	09/22/16 14:00	09/23/16 09:25
490-112439-6	MW-5D DUP	Water	09/22/16 14:00	09/23/16 09:25
490-112439-7	MW-5	Water	09/22/16 14:39	09/23/16 09:25

Job ID: 490-112439-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-112439-1

Comments
No additional comments.

Receipt
The samples were received on 9/23/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for analytical batch 490-375165 recovered outside control limits for the following analyte: Dichlorodifluoromethane.

Method 8260B: The method blank for analytical batch 490-375165 contained Hexachlorobutadiene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B: The method blank for analytical batch 490-375165 contained 1,2,3-Trichlorobenzene and Naphthalene above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 490-375013 contained 1,2,3-Trichlorobenzene, Hexachlorobutadiene and Naphthalene above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The following samples were diluted due to the nature of the sample matrix: MW-38 SBR (490-112439-2), MW-8 SBR (490-112439-3), MW-5D (490-112439-5), MW-5D DUP (490-112439-6) and MW-5 (490-112439-7). Elevated reporting limits (RLs) are provided.

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

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Client Sample ID: MW-37
Date Collected: 09/22/16 09:20
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			10/04/16 02:14	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			10/04/16 02:14	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			10/04/16 02:14	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			10/04/16 02:14	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			10/04/16 02:14	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			10/04/16 02:14	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			10/04/16 02:14	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			10/04/16 02:14	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			10/04/16 02:14	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			10/04/16 02:14	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			10/04/16 02:14	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			10/04/16 02:14	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			10/04/16 02:14	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			10/04/16 02:14	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			10/04/16 02:14	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			10/04/16 02:14	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			10/04/16 02:14	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			10/04/16 02:14	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			10/04/16 02:14	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			10/04/16 02:14	1
2-Hexanone	ND		10.0	1.28	ug/L			10/04/16 02:14	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			10/04/16 02:14	1
Acetone	ND		25.0	2.66	ug/L			10/04/16 02:14	1
Benzene	ND		1.00	0.200	ug/L			10/04/16 02:14	1
Bromobenzene	ND		1.00	0.210	ug/L			10/04/16 02:14	1
Bromochloromethane	ND		1.00	0.150	ug/L			10/04/16 02:14	1
Bromodichloromethane	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Bromoform	ND		1.00	0.290	ug/L			10/04/16 02:14	1
Bromomethane	ND		1.00	0.350	ug/L			10/04/16 02:14	1
Carbon disulfide	ND		1.00	0.220	ug/L			10/04/16 02:14	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			10/04/16 02:14	1
Chlorobenzene	ND		1.00	0.180	ug/L			10/04/16 02:14	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			10/04/16 02:14	1
Chloroethane	ND		1.00	0.360	ug/L			10/04/16 02:14	1
Chloroform	**0.234**	**J**	1.00	0.230	ug/L			10/04/16 02:14	1
Chloromethane	ND		1.00	0.360	ug/L			10/04/16 02:14	1
cis-1,2-Dichloroethene	**0.647**	**J**	1.00	0.210	ug/L			10/04/16 02:14	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Dibromomethane	ND		1.00	0.450	ug/L			10/04/16 02:14	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Ethylbenzene	ND		1.00	0.190	ug/L			10/04/16 02:14	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			10/04/16 02:14	1
Isopropylbenzene	ND		1.00	0.330	ug/L			10/04/16 02:14	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Methylene Chloride	ND		5.00	1.00	ug/L			10/04/16 02:14	1

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Client Sample ID: MW-37
Date Collected: 09/22/16 09:20
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			10/04/16 02:14	1
n-Butylbenzene	ND		1.00	0.240	ug/L			10/04/16 02:14	1
N-Propylbenzene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Styrene	ND		1.00	0.280	ug/L			10/04/16 02:14	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Tetrachloroethene	**1.95**		1.00	0.140	ug/L			10/04/16 02:14	1
Toluene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			10/04/16 02:14	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			10/04/16 02:14	1
Trichloroethene	**164**		1.00	0.200	ug/L			10/04/16 02:14	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			10/04/16 02:14	1
Vinyl chloride	ND		1.00	0.180	ug/L			10/04/16 02:14	1
Xylenes, Total	ND		3.00	0.580	ug/L			10/04/16 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/04/16 02:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/04/16 02:14*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/04/16 02:14*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/04/16 02:14*	*1*

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Client Sample ID: MW-38 SBR
Date Collected: 09/22/16 09:53
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.00	0.750	ug/L			10/04/16 06:24	5
1,1,1-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 06:24	5
1,1,2,2-Tetrachloroethane	ND		5.00	0.950	ug/L			10/04/16 06:24	5
1,1,2-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 06:24	5
1,1-Dichloroethane	ND		5.00	1.20	ug/L			10/04/16 06:24	5
1,1-Dichloroethene	ND		5.00	1.25	ug/L			10/04/16 06:24	5
1,1-Dichloropropene	ND		5.00	1.00	ug/L			10/04/16 06:24	5
1,2,3-Trichlorobenzene	ND		5.00	1.15	ug/L			10/04/16 06:24	5
1,2,3-Trichloropropane	ND		5.00	1.15	ug/L			10/04/16 06:24	5
1,2,4-Trichlorobenzene	ND		5.00	1.00	ug/L			10/04/16 06:24	5
1,2,4-Trimethylbenzene	**1.17**	**J**	5.00	0.850	ug/L			10/04/16 06:24	5
1,2-Dibromo-3-Chloropropane	ND		50.0	4.70	ug/L			10/04/16 06:24	5
1,2-Dibromoethane (EDB)	ND		5.00	1.05	ug/L			10/04/16 06:24	5
1,2-Dichlorobenzene	ND		5.00	0.950	ug/L			10/04/16 06:24	5
1,2-Dichloroethane	ND		5.00	1.00	ug/L			10/04/16 06:24	5
1,2-Dichloropropane	ND		5.00	1.25	ug/L			10/04/16 06:24	5
1,3,5-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
1,3-Dichlorobenzene	ND		5.00	0.900	ug/L			10/04/16 06:24	5
1,3-Dichloropropane	ND		5.00	0.950	ug/L			10/04/16 06:24	5
1,4-Dichlorobenzene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
2,2-Dichloropropane	ND		5.00	0.800	ug/L			10/04/16 06:24	5
2-Butanone (MEK)	**51.8**	**J**	250	13.2	ug/L			10/04/16 06:24	5
2-Chlorotoluene	ND		5.00	0.900	ug/L			10/04/16 06:24	5
2-Hexanone	ND		50.0	6.40	ug/L			10/04/16 06:24	5
4-Chlorotoluene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
4-Methyl-2-pentanone (MIBK)	ND		50.0	4.05	ug/L			10/04/16 06:24	5
Acetone	**98.3**	**J**	125	13.3	ug/L			10/04/16 06:24	5
Benzene	ND		5.00	1.00	ug/L			10/04/16 06:24	5
Bromobenzene	ND		5.00	1.05	ug/L			10/04/16 06:24	5
Bromochloromethane	ND		5.00	0.750	ug/L			10/04/16 06:24	5
Bromodichloromethane	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Bromoform	ND		5.00	1.45	ug/L			10/04/16 06:24	5
Bromomethane	ND		5.00	1.75	ug/L			10/04/16 06:24	5
Carbon disulfide	**2.72**	**J**	5.00	1.10	ug/L			10/04/16 06:24	5
Carbon tetrachloride	ND		5.00	0.900	ug/L			10/04/16 06:24	5
Chlorobenzene	ND		5.00	0.900	ug/L			10/04/16 06:24	5
Chlorodibromomethane	ND		5.00	1.25	ug/L			10/04/16 06:24	5
Chloroethane	ND		5.00	1.80	ug/L			10/04/16 06:24	5
Chloroform	ND		5.00	1.15	ug/L			10/04/16 06:24	5
Chloromethane	ND		5.00	1.80	ug/L			10/04/16 06:24	5
cis-1,2-Dichloroethene	**29.6**		5.00	1.05	ug/L			10/04/16 06:24	5
cis-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Dibromomethane	ND		5.00	2.25	ug/L			10/04/16 06:24	5
Dichlorodifluoromethane	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Ethylbenzene	ND		5.00	0.950	ug/L			10/04/16 06:24	5
Hexachlorobutadiene	ND		10.0	1.90	ug/L			10/04/16 06:24	5
Isopropylbenzene	ND		5.00	1.65	ug/L			10/04/16 06:24	5
Methyl tert-butyl ether	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Methylene Chloride	ND		25.0	5.00	ug/L			10/04/16 06:24	5

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Client Sample ID: MW-38 SBR
Date Collected: 09/22/16 09:53
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**4.69**	**J B**	25.0	1.05	ug/L			10/04/16 06:24	5
n-Butylbenzene	ND		5.00	1.20	ug/L			10/04/16 06:24	5
N-Propylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
p-Isopropyltoluene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
sec-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Styrene	ND		5.00	1.40	ug/L			10/04/16 06:24	5
tert-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Tetrachloroethene	**1.69**	**J**	5.00	0.700	ug/L			10/04/16 06:24	5
Toluene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
trans-1,2-Dichloroethene	ND		5.00	1.15	ug/L			10/04/16 06:24	5
trans-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 06:24	5
Trichloroethene	**436**		5.00	1.00	ug/L			10/04/16 06:24	5
Trichlorofluoromethane	ND		5.00	1.05	ug/L			10/04/16 06:24	5
Vinyl chloride	ND		5.00	0.900	ug/L			10/04/16 06:24	5
Xylenes, Total	ND		15.0	2.90	ug/L			10/04/16 06:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/04/16 06:24*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/04/16 06:24*	*5*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/04/16 06:24*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/04/16 06:24*	*5*

Client Sample ID: MW-8 SBR
Date Collected: 09/22/16 12:21
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.00	0.750	ug/L			10/04/16 06:49	5
1,1,1-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 06:49	5
1,1,2,2-Tetrachloroethane	ND		5.00	0.950	ug/L			10/04/16 06:49	5
1,1,2-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 06:49	5
1,1-Dichloroethane	ND		5.00	1.20	ug/L			10/04/16 06:49	5
1,1-Dichloroethene	ND		5.00	1.25	ug/L			10/04/16 06:49	5
1,1-Dichloropropene	ND		5.00	1.00	ug/L			10/04/16 06:49	5
1,2,3-Trichlorobenzene	ND		5.00	1.15	ug/L			10/04/16 06:49	5
1,2,3-Trichloropropane	ND		5.00	1.15	ug/L			10/04/16 06:49	5
1,2,4-Trichlorobenzene	ND		5.00	1.00	ug/L			10/04/16 06:49	5
1,2,4-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
1,2-Dibromo-3-Chloropropane	ND		50.0	4.70	ug/L			10/04/16 06:49	5
1,2-Dibromoethane (EDB)	ND		5.00	1.05	ug/L			10/04/16 06:49	5
1,2-Dichlorobenzene	ND		5.00	0.950	ug/L			10/04/16 06:49	5
1,2-Dichloroethane	ND		5.00	1.00	ug/L			10/04/16 06:49	5
1,2-Dichloropropane	ND		5.00	1.25	ug/L			10/04/16 06:49	5
1,3,5-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
1,3-Dichlorobenzene	ND		5.00	0.900	ug/L			10/04/16 06:49	5
1,3-Dichloropropane	ND		5.00	0.950	ug/L			10/04/16 06:49	5
1,4-Dichlorobenzene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
2,2-Dichloropropane	ND		5.00	0.800	ug/L			10/04/16 06:49	5
2-Butanone (MEK)	ND		250	13.2	ug/L			10/04/16 06:49	5
2-Chlorotoluene	ND		5.00	0.900	ug/L			10/04/16 06:49	5
2-Hexanone	ND		50.0	6.40	ug/L			10/04/16 06:49	5
4-Chlorotoluene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
4-Methyl-2-pentanone (MIBK)	ND		50.0	4.05	ug/L			10/04/16 06:49	5
Acetone	ND		125	13.3	ug/L			10/04/16 06:49	5
Benzene	ND		5.00	1.00	ug/L			10/04/16 06:49	5
Bromobenzene	ND		5.00	1.05	ug/L			10/04/16 06:49	5
Bromochloromethane	ND		5.00	0.750	ug/L			10/04/16 06:49	5
Bromodichloromethane	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Bromoform	ND		5.00	1.45	ug/L			10/04/16 06:49	5
Bromomethane	ND		5.00	1.75	ug/L			10/04/16 06:49	5
Carbon disulfide	ND		5.00	1.10	ug/L			10/04/16 06:49	5
Carbon tetrachloride	ND		5.00	0.900	ug/L			10/04/16 06:49	5
Chlorobenzene	ND		5.00	0.900	ug/L			10/04/16 06:49	5
Chlorodibromomethane	ND		5.00	1.25	ug/L			10/04/16 06:49	5
Chloroethane	ND		5.00	1.80	ug/L			10/04/16 06:49	5
Chloroform	ND		5.00	1.15	ug/L			10/04/16 06:49	5
Chloromethane	ND		5.00	1.80	ug/L			10/04/16 06:49	5
cis-1,2-Dichloroethene	**1.44**	**J**	5.00	1.05	ug/L			10/04/16 06:49	5
cis-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Dibromomethane	ND		5.00	2.25	ug/L			10/04/16 06:49	5
Dichlorodifluoromethane	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Ethylbenzene	ND		5.00	0.950	ug/L			10/04/16 06:49	5
Hexachlorobutadiene	ND		10.0	1.90	ug/L			10/04/16 06:49	5
Isopropylbenzene	ND		5.00	1.65	ug/L			10/04/16 06:49	5
Methyl tert-butyl ether	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Methylene Chloride	ND		25.0	5.00	ug/L			10/04/16 06:49	5

Client Sample ID: MW-8 SBR
Date Collected: 09/22/16 12:21
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25.0	1.05	ug/L			10/04/16 06:49	5
n-Butylbenzene	ND		5.00	1.20	ug/L			10/04/16 06:49	5
N-Propylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
p-Isopropyltoluene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
sec-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Styrene	ND		5.00	1.40	ug/L			10/04/16 06:49	5
tert-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Tetrachloroethene	**1.26**	**J**	5.00	0.700	ug/L			10/04/16 06:49	5
Toluene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
trans-1,2-Dichloroethene	ND		5.00	1.15	ug/L			10/04/16 06:49	5
trans-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 06:49	5
Trichloroethene	**290**		5.00	1.00	ug/L			10/04/16 06:49	5
Trichlorofluoromethane	ND		5.00	1.05	ug/L			10/04/16 06:49	5
Vinyl chloride	ND		5.00	0.900	ug/L			10/04/16 06:49	5
Xylenes, Total	ND		15.0	2.90	ug/L			10/04/16 06:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/04/16 06:49*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/04/16 06:49*	*5*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/04/16 06:49*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/04/16 06:49*	*5*

Client Sample ID: OBS-8
Date Collected: 09/22/16 12:25
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.00	0.750	ug/L			10/04/16 19:27	5
1,1,1-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 19:27	5
1,1,2,2-Tetrachloroethane	ND		5.00	0.950	ug/L			10/04/16 19:27	5
1,1,2-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 19:27	5
1,1-Dichloroethane	ND		5.00	1.20	ug/L			10/04/16 19:27	5
1,1-Dichloroethene	**1.52**	**J**	5.00	1.25	ug/L			10/04/16 19:27	5
1,1-Dichloropropene	ND		5.00	1.00	ug/L			10/04/16 19:27	5
1,2,3-Trichlorobenzene	ND		5.00	1.15	ug/L			10/04/16 19:27	5
1,2,3-Trichloropropane	ND		5.00	1.15	ug/L			10/04/16 19:27	5
1,2,4-Trichlorobenzene	ND		5.00	1.00	ug/L			10/04/16 19:27	5
1,2,4-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
1,2-Dibromo-3-Chloropropane	ND		50.0	4.70	ug/L			10/04/16 19:27	5
1,2-Dibromoethane (EDB)	ND		5.00	1.05	ug/L			10/04/16 19:27	5
1,2-Dichlorobenzene	ND		5.00	0.950	ug/L			10/04/16 19:27	5
1,2-Dichloroethane	ND		5.00	1.00	ug/L			10/04/16 19:27	5
1,2-Dichloropropane	ND		5.00	1.25	ug/L			10/04/16 19:27	5
1,3,5-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
1,3-Dichlorobenzene	ND		5.00	0.900	ug/L			10/04/16 19:27	5
1,3-Dichloropropane	ND		5.00	0.950	ug/L			10/04/16 19:27	5
1,4-Dichlorobenzene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
2,2-Dichloropropane	ND		5.00	0.800	ug/L			10/04/16 19:27	5
2-Butanone (MEK)	ND		250	13.2	ug/L			10/04/16 19:27	5
2-Chlorotoluene	ND		5.00	0.900	ug/L			10/04/16 19:27	5
2-Hexanone	ND		50.0	6.40	ug/L			10/04/16 19:27	5
4-Chlorotoluene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
4-Methyl-2-pentanone (MIBK)	ND		50.0	4.05	ug/L			10/04/16 19:27	5
Acetone	**56.1**	**J**	125	13.3	ug/L			10/04/16 19:27	5
Benzene	**1.95**	**J**	5.00	1.00	ug/L			10/04/16 19:27	5
Bromobenzene	ND		5.00	1.05	ug/L			10/04/16 19:27	5
Bromochloromethane	ND		5.00	0.750	ug/L			10/04/16 19:27	5
Bromodichloromethane	ND		5.00	0.850	ug/L			10/04/16 19:27	5
Bromoform	ND		5.00	1.45	ug/L			10/04/16 19:27	5
Bromomethane	ND		5.00	1.75	ug/L			10/04/16 19:27	5
Carbon disulfide	**5.39**		5.00	1.10	ug/L			10/04/16 19:27	5
Carbon tetrachloride	ND		5.00	0.900	ug/L			10/04/16 19:27	5
Chlorobenzene	ND		5.00	0.900	ug/L			10/04/16 19:27	5
Chlorodibromomethane	ND		5.00	1.25	ug/L			10/04/16 19:27	5
Chloroethane	ND		5.00	1.80	ug/L			10/04/16 19:27	5
Chloroform	ND		5.00	1.15	ug/L			10/04/16 19:27	5
Chloromethane	ND		5.00	1.80	ug/L			10/04/16 19:27	5
cis-1,2-Dichloroethene	**187**		5.00	1.05	ug/L			10/04/16 19:27	5
cis-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
Dibromomethane	ND		5.00	2.25	ug/L			10/04/16 19:27	5
Dichlorodifluoromethane	ND	*	5.00	0.850	ug/L			10/04/16 19:27	5
Ethylbenzene	ND		5.00	0.950	ug/L			10/04/16 19:27	5
Hexachlorobutadiene	ND		10.0	1.90	ug/L			10/04/16 19:27	5
Isopropylbenzene	ND		5.00	1.65	ug/L			10/04/16 19:27	5
Methyl tert-butyl ether	ND		5.00	0.850	ug/L			10/04/16 19:27	5
Methylene Chloride	ND		25.0	5.00	ug/L			10/04/16 19:27	5

Client Sample ID: OBS-8
Date Collected: 09/22/16 12:25
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25.0	1.05	ug/L			10/04/16 19:27	5
n-Butylbenzene	ND		5.00	1.20	ug/L			10/04/16 19:27	5
N-Propylbenzene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
p-Isopropyltoluene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
sec-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
Styrene	ND		5.00	1.40	ug/L			10/04/16 19:27	5
tert-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
Tetrachloroethene	**0.832**	**J**	5.00	0.700	ug/L			10/04/16 19:27	5
Toluene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
trans-1,2-Dichloroethene	ND		5.00	1.15	ug/L			10/04/16 19:27	5
trans-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 19:27	5
Trichloroethene	**592**		5.00	1.00	ug/L			10/04/16 19:27	5
Trichlorofluoromethane	ND		5.00	1.05	ug/L			10/04/16 19:27	5
Vinyl chloride	**0.920**	**J**	5.00	0.900	ug/L			10/04/16 19:27	5
Xylenes, Total	ND		15.0	2.90	ug/L			10/04/16 19:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/04/16 19:27*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/04/16 19:27*	*5*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/04/16 19:27*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/04/16 19:27*	*5*

Client Sample ID: MW-5D
Date Collected: 09/22/16 14:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10.0	1.50	ug/L			10/04/16 07:39	10
1,1,1-Trichloroethane	ND		10.0	1.90	ug/L			10/04/16 07:39	10
1,1,2,2-Tetrachloroethane	ND		10.0	1.90	ug/L			10/04/16 07:39	10
1,1,2-Trichloroethane	ND		10.0	1.90	ug/L			10/04/16 07:39	10
1,1-Dichloroethane	ND		10.0	2.40	ug/L			10/04/16 07:39	10
1,1-Dichloroethene	ND		10.0	2.50	ug/L			10/04/16 07:39	10
1,1-Dichloropropene	ND		10.0	2.00	ug/L			10/04/16 07:39	10
1,2,3-Trichlorobenzene	ND		10.0	2.30	ug/L			10/04/16 07:39	10
1,2,3-Trichloropropane	ND		10.0	2.30	ug/L			10/04/16 07:39	10
1,2,4-Trichlorobenzene	ND		10.0	2.00	ug/L			10/04/16 07:39	10
1,2,4-Trimethylbenzene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
1,2-Dibromo-3-Chloropropane	ND		100	9.40	ug/L			10/04/16 07:39	10
1,2-Dibromoethane (EDB)	ND		10.0	2.10	ug/L			10/04/16 07:39	10
1,2-Dichlorobenzene	ND		10.0	1.90	ug/L			10/04/16 07:39	10
1,2-Dichloroethane	ND		10.0	2.00	ug/L			10/04/16 07:39	10
1,2-Dichloropropane	ND		10.0	2.50	ug/L			10/04/16 07:39	10
1,3,5-Trimethylbenzene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
1,3-Dichlorobenzene	ND		10.0	1.80	ug/L			10/04/16 07:39	10
1,3-Dichloropropane	ND		10.0	1.90	ug/L			10/04/16 07:39	10
1,4-Dichlorobenzene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
2,2-Dichloropropane	ND		10.0	1.60	ug/L			10/04/16 07:39	10
2-Butanone (MEK)	ND		500	26.4	ug/L			10/04/16 07:39	10
2-Chlorotoluene	ND		10.0	1.80	ug/L			10/04/16 07:39	10
2-Hexanone	ND		100	12.8	ug/L			10/04/16 07:39	10
4-Chlorotoluene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
4-Methyl-2-pentanone (MIBK)	ND		100	8.10	ug/L			10/04/16 07:39	10
Acetone	**446**		250	26.6	ug/L			10/04/16 07:39	10
Benzene	ND		10.0	2.00	ug/L			10/04/16 07:39	10
Bromobenzene	ND		10.0	2.10	ug/L			10/04/16 07:39	10
Bromochloromethane	ND		10.0	1.50	ug/L			10/04/16 07:39	10
Bromodichloromethane	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Bromoform	ND		10.0	2.90	ug/L			10/04/16 07:39	10
Bromomethane	ND		10.0	3.50	ug/L			10/04/16 07:39	10
Carbon disulfide	**3.07**	**J**	10.0	2.20	ug/L			10/04/16 07:39	10
Carbon tetrachloride	ND		10.0	1.80	ug/L			10/04/16 07:39	10
Chlorobenzene	ND		10.0	1.80	ug/L			10/04/16 07:39	10
Chlorodibromomethane	ND		10.0	2.50	ug/L			10/04/16 07:39	10
Chloroethane	ND		10.0	3.60	ug/L			10/04/16 07:39	10
Chloroform	ND		10.0	2.30	ug/L			10/04/16 07:39	10
Chloromethane	ND		10.0	3.60	ug/L			10/04/16 07:39	10
cis-1,2-Dichloroethene	**2.24**	**J**	10.0	2.10	ug/L			10/04/16 07:39	10
cis-1,3-Dichloropropene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Dibromomethane	ND		10.0	4.50	ug/L			10/04/16 07:39	10
Dichlorodifluoromethane	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Ethylbenzene	ND		10.0	1.90	ug/L			10/04/16 07:39	10
Hexachlorobutadiene	ND		20.0	3.80	ug/L			10/04/16 07:39	10
Isopropylbenzene	ND		10.0	3.30	ug/L			10/04/16 07:39	10
Methyl tert-butyl ether	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Methylene Chloride	ND		50.0	10.0	ug/L			10/04/16 07:39	10

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Client Sample ID: MW-5D
Date Collected: 09/22/16 14:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		50.0	2.10	ug/L			10/04/16 07:39	10
n-Butylbenzene	ND		10.0	2.40	ug/L			10/04/16 07:39	10
N-Propylbenzene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
p-Isopropyltoluene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
sec-Butylbenzene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Styrene	ND		10.0	2.80	ug/L			10/04/16 07:39	10
tert-Butylbenzene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Tetrachloroethene	ND		10.0	1.40	ug/L			10/04/16 07:39	10
Toluene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
trans-1,2-Dichloroethene	ND		10.0	2.30	ug/L			10/04/16 07:39	10
trans-1,3-Dichloropropene	ND		10.0	1.70	ug/L			10/04/16 07:39	10
Trichloroethene	**1030**		10.0	2.00	ug/L			10/04/16 07:39	10
Trichlorofluoromethane	ND		10.0	2.10	ug/L			10/04/16 07:39	10
Vinyl chloride	ND		10.0	1.80	ug/L			10/04/16 07:39	10
Xylenes, Total	ND		30.0	5.80	ug/L			10/04/16 07:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/04/16 07:39*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/04/16 07:39*	*10*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/04/16 07:39*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/04/16 07:39*	*10*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.302**		0.0200	0.00100	mg/L		09/26/16 10:07	09/30/16 00:58	10

Client Sample ID: MW-5D DUP
Date Collected: 09/22/16 14:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10.0	1.50	ug/L			10/04/16 08:05	10
1,1,1-Trichloroethane	ND		10.0	1.90	ug/L			10/04/16 08:05	10
1,1,2,2-Tetrachloroethane	ND		10.0	1.90	ug/L			10/04/16 08:05	10
1,1,2-Trichloroethane	ND		10.0	1.90	ug/L			10/04/16 08:05	10
1,1-Dichloroethane	ND		10.0	2.40	ug/L			10/04/16 08:05	10
1,1-Dichloroethene	ND		10.0	2.50	ug/L			10/04/16 08:05	10
1,1-Dichloropropene	ND		10.0	2.00	ug/L			10/04/16 08:05	10
1,2,3-Trichlorobenzene	ND		10.0	2.30	ug/L			10/04/16 08:05	10
1,2,3-Trichloropropane	ND		10.0	2.30	ug/L			10/04/16 08:05	10
1,2,4-Trichlorobenzene	ND		10.0	2.00	ug/L			10/04/16 08:05	10
1,2,4-Trimethylbenzene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
1,2-Dibromo-3-Chloropropane	ND		100	9.40	ug/L			10/04/16 08:05	10
1,2-Dibromoethane (EDB)	ND		10.0	2.10	ug/L			10/04/16 08:05	10
1,2-Dichlorobenzene	ND		10.0	1.90	ug/L			10/04/16 08:05	10
1,2-Dichloroethane	ND		10.0	2.00	ug/L			10/04/16 08:05	10
1,2-Dichloropropane	ND		10.0	2.50	ug/L			10/04/16 08:05	10
1,3,5-Trimethylbenzene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
1,3-Dichlorobenzene	ND		10.0	1.80	ug/L			10/04/16 08:05	10
1,3-Dichloropropane	ND		10.0	1.90	ug/L			10/04/16 08:05	10
1,4-Dichlorobenzene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
2,2-Dichloropropane	ND		10.0	1.60	ug/L			10/04/16 08:05	10
2-Butanone (MEK)	ND		500	26.4	ug/L			10/04/16 08:05	10
2-Chlorotoluene	ND		10.0	1.80	ug/L			10/04/16 08:05	10
2-Hexanone	ND		100	12.8	ug/L			10/04/16 08:05	10
4-Chlorotoluene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
4-Methyl-2-pentanone (MIBK)	ND		100	8.10	ug/L			10/04/16 08:05	10
Acetone	**475**		250	26.6	ug/L			10/04/16 08:05	10
Benzene	ND		10.0	2.00	ug/L			10/04/16 08:05	10
Bromobenzene	ND		10.0	2.10	ug/L			10/04/16 08:05	10
Bromochloromethane	ND		10.0	1.50	ug/L			10/04/16 08:05	10
Bromodichloromethane	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Bromoform	ND		10.0	2.90	ug/L			10/04/16 08:05	10
Bromomethane	ND		10.0	3.50	ug/L			10/04/16 08:05	10
Carbon disulfide	**3.77**	**J**	10.0	2.20	ug/L			10/04/16 08:05	10
Carbon tetrachloride	ND		10.0	1.80	ug/L			10/04/16 08:05	10
Chlorobenzene	ND		10.0	1.80	ug/L			10/04/16 08:05	10
Chlorodibromomethane	ND		10.0	2.50	ug/L			10/04/16 08:05	10
Chloroethane	ND		10.0	3.60	ug/L			10/04/16 08:05	10
Chloroform	ND		10.0	2.30	ug/L			10/04/16 08:05	10
Chloromethane	ND		10.0	3.60	ug/L			10/04/16 08:05	10
cis-1,2-Dichloroethene	**2.50**	**J**	10.0	2.10	ug/L			10/04/16 08:05	10
cis-1,3-Dichloropropene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Dibromomethane	ND		10.0	4.50	ug/L			10/04/16 08:05	10
Dichlorodifluoromethane	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Ethylbenzene	ND		10.0	1.90	ug/L			10/04/16 08:05	10
Hexachlorobutadiene	ND		20.0	3.80	ug/L			10/04/16 08:05	10
Isopropylbenzene	ND		10.0	3.30	ug/L			10/04/16 08:05	10
Methyl tert-butyl ether	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Methylene Chloride	ND		50.0	10.0	ug/L			10/04/16 08:05	10

Client Sample ID: MW-5D DUP
Date Collected: 09/22/16 14:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		50.0	2.10	ug/L			10/04/16 08:05	10
n-Butylbenzene	ND		10.0	2.40	ug/L			10/04/16 08:05	10
N-Propylbenzene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
p-Isopropyltoluene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
sec-Butylbenzene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Styrene	ND		10.0	2.80	ug/L			10/04/16 08:05	10
tert-Butylbenzene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Tetrachloroethene	ND		10.0	1.40	ug/L			10/04/16 08:05	10
Toluene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
trans-1,2-Dichloroethene	ND		10.0	2.30	ug/L			10/04/16 08:05	10
trans-1,3-Dichloropropene	ND		10.0	1.70	ug/L			10/04/16 08:05	10
Trichloroethene	**972**		10.0	2.00	ug/L			10/04/16 08:05	10
Trichlorofluoromethane	ND		10.0	2.10	ug/L			10/04/16 08:05	10
Vinyl chloride	ND		10.0	1.80	ug/L			10/04/16 08:05	10
Xylenes, Total	ND		30.0	5.80	ug/L			10/04/16 08:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/04/16 08:05*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/04/16 08:05*	*10*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/04/16 08:05*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/04/16 08:05*	*10*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.301**		0.0200	0.00100	mg/L		09/26/16 10:07	09/30/16 01:03	10

Client Sample ID: MW-5
Date Collected: 09/22/16 14:39
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.00	0.750	ug/L			10/04/16 07:14	5
1,1,1-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 07:14	5
1,1,2,2-Tetrachloroethane	ND		5.00	0.950	ug/L			10/04/16 07:14	5
1,1,2-Trichloroethane	ND		5.00	0.950	ug/L			10/04/16 07:14	5
1,1-Dichloroethane	ND		5.00	1.20	ug/L			10/04/16 07:14	5
1,1-Dichloroethene	ND		5.00	1.25	ug/L			10/04/16 07:14	5
1,1-Dichloropropene	ND		5.00	1.00	ug/L			10/04/16 07:14	5
1,2,3-Trichlorobenzene	ND		5.00	1.15	ug/L			10/04/16 07:14	5
1,2,3-Trichloropropane	ND		5.00	1.15	ug/L			10/04/16 07:14	5
1,2,4-Trichlorobenzene	ND		5.00	1.00	ug/L			10/04/16 07:14	5
1,2,4-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
1,2-Dibromo-3-Chloropropane	ND		50.0	4.70	ug/L			10/04/16 07:14	5
1,2-Dibromoethane (EDB)	ND		5.00	1.05	ug/L			10/04/16 07:14	5
1,2-Dichlorobenzene	ND		5.00	0.950	ug/L			10/04/16 07:14	5
1,2-Dichloroethane	ND		5.00	1.00	ug/L			10/04/16 07:14	5
1,2-Dichloropropane	ND		5.00	1.25	ug/L			10/04/16 07:14	5
1,3,5-Trimethylbenzene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
1,3-Dichlorobenzene	ND		5.00	0.900	ug/L			10/04/16 07:14	5
1,3-Dichloropropane	ND		5.00	0.950	ug/L			10/04/16 07:14	5
1,4-Dichlorobenzene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
2,2-Dichloropropane	ND		5.00	0.800	ug/L			10/04/16 07:14	5
2-Butanone (MEK)	ND		250	13.2	ug/L			10/04/16 07:14	5
2-Chlorotoluene	ND		5.00	0.900	ug/L			10/04/16 07:14	5
2-Hexanone	ND		50.0	6.40	ug/L			10/04/16 07:14	5
4-Chlorotoluene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
4-Methyl-2-pentanone (MIBK)	ND		50.0	4.05	ug/L			10/04/16 07:14	5
Acetone	ND		125	13.3	ug/L			10/04/16 07:14	5
Benzene	ND		5.00	1.00	ug/L			10/04/16 07:14	5
Bromobenzene	ND		5.00	1.05	ug/L			10/04/16 07:14	5
Bromochloromethane	ND		5.00	0.750	ug/L			10/04/16 07:14	5
Bromodichloromethane	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Bromoform	ND		5.00	1.45	ug/L			10/04/16 07:14	5
Bromomethane	ND		5.00	1.75	ug/L			10/04/16 07:14	5
Carbon disulfide	ND		5.00	1.10	ug/L			10/04/16 07:14	5
Carbon tetrachloride	ND		5.00	0.900	ug/L			10/04/16 07:14	5
Chlorobenzene	ND		5.00	0.900	ug/L			10/04/16 07:14	5
Chlorodibromomethane	ND		5.00	1.25	ug/L			10/04/16 07:14	5
Chloroethane	ND		5.00	1.80	ug/L			10/04/16 07:14	5
Chloroform	ND		5.00	1.15	ug/L			10/04/16 07:14	5
Chloromethane	ND		5.00	1.80	ug/L			10/04/16 07:14	5
cis-1,2-Dichloroethene	**1.19**	**J**	5.00	1.05	ug/L			10/04/16 07:14	5
cis-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Dibromomethane	ND		5.00	2.25	ug/L			10/04/16 07:14	5
Dichlorodifluoromethane	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Ethylbenzene	ND		5.00	0.950	ug/L			10/04/16 07:14	5
Hexachlorobutadiene	ND		10.0	1.90	ug/L			10/04/16 07:14	5
Isopropylbenzene	ND		5.00	1.65	ug/L			10/04/16 07:14	5
Methyl tert-butyl ether	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Methylene Chloride	ND		25.0	5.00	ug/L			10/04/16 07:14	5

Client Sample ID: MW-5
Date Collected: 09/22/16 14:39
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25.0	1.05	ug/L			10/04/16 07:14	5
n-Butylbenzene	ND		5.00	1.20	ug/L			10/04/16 07:14	5
N-Propylbenzene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
p-Isopropyltoluene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
sec-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Styrene	ND		5.00	1.40	ug/L			10/04/16 07:14	5
tert-Butylbenzene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Tetrachloroethene	**1.59**	**J**	5.00	0.700	ug/L			10/04/16 07:14	5
Toluene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
trans-1,2-Dichloroethene	ND		5.00	1.15	ug/L			10/04/16 07:14	5
trans-1,3-Dichloropropene	ND		5.00	0.850	ug/L			10/04/16 07:14	5
Trichloroethene	**8480**		100	20.0	ug/L			10/04/16 19:52	100
Trichlorofluoromethane	ND		5.00	1.05	ug/L			10/04/16 07:14	5
Vinyl chloride	ND		5.00	0.900	ug/L			10/04/16 07:14	5
Xylenes, Total	ND		15.0	2.90	ug/L			10/04/16 07:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/04/16 07:14*	*5*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/04/16 19:52*	*100*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/04/16 07:14*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/04/16 19:52*	*100*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/04/16 07:14*	*5*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/04/16 19:52*	*100*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/04/16 07:14*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/04/16 19:52*	*100*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0178**	**J**	0.0200	0.00100	mg/L		09/26/16 10:07	09/30/16 01:09	10

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

Lab Sample ID: MB 490-375013/7
Matrix: Water
Analysis Batch: 375013

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			10/04/16 00:33	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			10/04/16 00:33	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			10/04/16 00:33	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			10/04/16 00:33	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			10/04/16 00:33	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			10/04/16 00:33	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			10/04/16 00:33	1
1,2,3-Trichlorobenzene	0.6166	J	1.00	0.230	ug/L			10/04/16 00:33	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			10/04/16 00:33	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			10/04/16 00:33	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			10/04/16 00:33	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			10/04/16 00:33	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			10/04/16 00:33	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			10/04/16 00:33	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			10/04/16 00:33	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			10/04/16 00:33	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			10/04/16 00:33	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			10/04/16 00:33	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			10/04/16 00:33	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			10/04/16 00:33	1
2-Hexanone	ND		10.0	1.28	ug/L			10/04/16 00:33	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			10/04/16 00:33	1
Acetone	ND		25.0	2.66	ug/L			10/04/16 00:33	1
Benzene	ND		1.00	0.200	ug/L			10/04/16 00:33	1
Bromobenzene	ND		1.00	0.210	ug/L			10/04/16 00:33	1
Bromochloromethane	ND		1.00	0.150	ug/L			10/04/16 00:33	1
Bromodichloromethane	ND		1.00	0.170	ug/L			10/04/16 00:33	1
Bromoform	ND		1.00	0.290	ug/L			10/04/16 00:33	1
Bromomethane	ND		1.00	0.350	ug/L			10/04/16 00:33	1
Carbon disulfide	ND		1.00	0.220	ug/L			10/04/16 00:33	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			10/04/16 00:33	1
Chlorobenzene	ND		1.00	0.180	ug/L			10/04/16 00:33	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			10/04/16 00:33	1
Chloroethane	ND		1.00	0.360	ug/L			10/04/16 00:33	1
Chloroform	ND		1.00	0.230	ug/L			10/04/16 00:33	1
Chloromethane	ND		1.00	0.360	ug/L			10/04/16 00:33	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			10/04/16 00:33	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
Dibromomethane	ND		1.00	0.450	ug/L			10/04/16 00:33	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			10/04/16 00:33	1
Ethylbenzene	ND		1.00	0.190	ug/L			10/04/16 00:33	1
Hexachlorobutadiene	1.845	J	2.00	0.380	ug/L			10/04/16 00:33	1
Isopropylbenzene	ND		1.00	0.330	ug/L			10/04/16 00:33	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			10/04/16 00:33	1

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

Lab Sample ID: MB 490-375013/7
Matrix: Water
Analysis Batch: 375013

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	1.00	ug/L			10/04/16 00:33	1
Naphthalene	0.2589	J	5.00	0.210	ug/L			10/04/16 00:33	1
n-Butylbenzene	ND		1.00	0.240	ug/L			10/04/16 00:33	1
N-Propylbenzene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
Styrene	ND		1.00	0.280	ug/L			10/04/16 00:33	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
Tetrachloroethene	ND		1.00	0.140	ug/L			10/04/16 00:33	1
Toluene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			10/04/16 00:33	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			10/04/16 00:33	1
Trichloroethene	ND		1.00	0.200	ug/L			10/04/16 00:33	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			10/04/16 00:33	1
Vinyl chloride	ND		1.00	0.180	ug/L			10/04/16 00:33	1
Xylenes, Total	ND		3.00	0.580	ug/L			10/04/16 00:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/04/16 00:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/04/16 00:33*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/04/16 00:33*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/04/16 00:33*	*1*

Lab Sample ID: LCS 490-375013/3
Matrix: Water
Analysis Batch: 375013

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.23		ug/L		96	70 - 130
1,1,1-Trichloroethane	50.0	47.23		ug/L		94	70 - 135
1,1,2,2-Tetrachloroethane	50.0	49.60		ug/L		99	69 - 131
1,1,2-Trichloroethane	50.0	45.18		ug/L		90	70 - 130
1,1-Dichloroethane	50.0	43.36		ug/L		87	70 - 130
1,1-Dichloroethene	50.0	43.95		ug/L		88	70 - 132
1,1-Dichloropropene	50.0	43.46		ug/L		87	70 - 130
1,2,3-Trichlorobenzene	50.0	60.66		ug/L		121	46 - 150
1,2,3-Trichloropropane	50.0	47.31		ug/L		95	70 - 131
1,2,4-Trichlorobenzene	50.0	57.30		ug/L		115	58 - 147
1,2,4-Trimethylbenzene	50.0	43.05		ug/L		86	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	56.17		ug/L		112	45 - 138
1,2-Dibromoethane (EDB)	50.0	50.42		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	48.45		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	49.76		ug/L		100	70 - 130
1,2-Dichloropropane	50.0	43.04		ug/L		86	70 - 130
1,3,5-Trimethylbenzene	50.0	42.87		ug/L		86	70 - 130
1,3-Dichlorobenzene	50.0	46.88		ug/L		94	70 - 130
1,3-Dichloropropane	50.0	47.08		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.83		ug/L		94	70 - 130

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

Lab Sample ID: LCS 490-375013/3
Matrix: Water
Analysis Batch: 375013

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	47.17		ug/L		94	60 - 143
2-Butanone (MEK)	250	241.7		ug/L		97	55 - 143
2-Chlorotoluene	50.0	42.86		ug/L		86	70 - 130
2-Hexanone	250	213.2		ug/L		85	54 - 142
4-Chlorotoluene	50.0	42.93		ug/L		86	70 - 130
4-Methyl-2-pentanone (MIBK)	250	210.5		ug/L		84	60 - 137
Acetone	250	255.8		ug/L		102	39 - 150
Benzene	50.0	42.96		ug/L		86	70 - 130
Bromobenzene	50.0	44.87		ug/L		90	70 - 130
Bromochloromethane	50.0	48.65		ug/L		97	70 - 130
Bromodichloromethane	50.0	47.43		ug/L		95	70 - 130
Bromoform	50.0	50.24		ug/L		100	70 - 137
Bromomethane	50.0	43.92		ug/L		88	53 - 150
Carbon disulfide	50.0	36.32		ug/L		73	64 - 135
Carbon tetrachloride	50.0	49.20		ug/L		98	70 - 147
Chlorobenzene	50.0	45.92		ug/L		92	70 - 130
Chlorodibromomethane	50.0	52.36		ug/L		105	70 - 133
Chloroethane	50.0	38.97		ug/L		78	60 - 138
Chloroform	50.0	44.83		ug/L		90	70 - 130
Chloromethane	50.0	40.68		ug/L		81	33 - 150
cis-1,2-Dichloroethene	50.0	45.07		ug/L		90	70 - 130
cis-1,3-Dichloropropene	50.0	48.04		ug/L		96	70 - 133
Dibromomethane	50.0	48.67		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	44.71		ug/L		89	48 - 150
Ethylbenzene	50.0	42.92		ug/L		86	70 - 130
Hexachlorobutadiene	50.0	52.25		ug/L		105	70 - 138
Isopropylbenzene	50.0	45.00		ug/L		90	70 - 131
Methyl tert-butyl ether	50.0	47.46		ug/L		95	70 - 130
Methylene Chloride	50.0	48.94		ug/L		98	70 - 130
Naphthalene	50.0	59.13		ug/L		118	54 - 150
n-Butylbenzene	50.0	45.45		ug/L		91	68 - 137
N-Propylbenzene	50.0	43.11		ug/L		86	70 - 134
p-Isopropyltoluene	50.0	45.60		ug/L		91	66 - 130
sec-Butylbenzene	50.0	45.21		ug/L		90	70 - 135
Styrene	50.0	45.00		ug/L		90	70 - 130
tert-Butylbenzene	50.0	45.29		ug/L		91	70 - 130
Tetrachloroethene	50.0	47.23		ug/L		94	70 - 130
Toluene	50.0	42.24		ug/L		84	70 - 130
trans-1,2-Dichloroethene	50.0	43.07		ug/L		86	70 - 130
trans-1,3-Dichloropropene	50.0	48.84		ug/L		98	63 - 142
Trichloroethene	50.0	45.53		ug/L		91	70 - 130
Trichlorofluoromethane	50.0	45.07		ug/L		90	59 - 150
Vinyl chloride	50.0	48.39		ug/L		97	57 - 137
Xylenes, Total	100	85.08		ug/L		85	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: LCS 490-375013/3
Matrix: Water
Analysis Batch: 375013

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 490-375013/4
Matrix: Water
Analysis Batch: 375013

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
1,1,1,2-Tetrachloroethane			50.0	48.03		ug/L		96	70 - 130	0	13
1,1,1-Trichloroethane			50.0	47.84		ug/L		96	70 - 135	1	15
1,1,2,2-Tetrachloroethane			50.0	45.32		ug/L		91	69 - 131	9	15
1,1,2-Trichloroethane			50.0	45.37		ug/L		91	70 - 130	0	13
1,1-Dichloroethane			50.0	44.46		ug/L		89	70 - 130	3	17
1,1-Dichloroethene			50.0	44.63		ug/L		89	70 - 132	2	20
1,1-Dichloropropene			50.0	44.08		ug/L		88	70 - 130	1	16
1,2,3-Trichlorobenzene			50.0	62.62		ug/L		125	46 - 150	3	16
1,2,3-Trichloropropane			50.0	44.58		ug/L		89	70 - 131	6	14
1,2,4-Trichlorobenzene			50.0	58.71		ug/L		117	58 - 147	2	15
1,2,4-Trimethylbenzene			50.0	43.84		ug/L		88	70 - 130	2	13
1,2-Dibromo-3-Chloropropane			50.0	55.76		ug/L		112	45 - 138	1	19
1,2-Dibromoethane (EDB)			50.0	49.66		ug/L		99	70 - 130	2	13
1,2-Dichlorobenzene			50.0	47.44		ug/L		95	70 - 130	2	12
1,2-Dichloroethane			50.0	49.65		ug/L		99	70 - 130	0	13
1,2-Dichloropropane			50.0	43.95		ug/L		88	70 - 130	2	15
1,3,5-Trimethylbenzene			50.0	43.49		ug/L		87	70 - 130	1	14
1,3-Dichlorobenzene			50.0	46.91		ug/L		94	70 - 130	0	13
1,3-Dichloropropane			50.0	47.09		ug/L		94	70 - 130	0	12
1,4-Dichlorobenzene			50.0	46.43		ug/L		93	70 - 130	1	12
2,2-Dichloropropane			50.0	47.25		ug/L		95	60 - 143	0	20
2-Butanone (MEK)			250	236.7		ug/L		95	55 - 143	2	19
2-Chlorotoluene			50.0	43.36		ug/L		87	70 - 130	1	15
2-Hexanone			250	213.8		ug/L		86	54 - 142	0	17
4-Chlorotoluene			50.0	43.12		ug/L		86	70 - 130	0	15
4-Methyl-2-pentanone (MIBK)			250	208.2		ug/L		83	60 - 137	1	21
Acetone			250	255.2		ug/L		102	39 - 150	0	23
Benzene			50.0	43.27		ug/L		87	70 - 130	1	12
Bromobenzene			50.0	43.56		ug/L		87	70 - 130	3	16
Bromochloromethane			50.0	48.02		ug/L		96	70 - 130	1	16
Bromodichloromethane			50.0	47.06		ug/L		94	70 - 130	1	14
Bromoform			50.0	50.18		ug/L		100	70 - 137	0	14
Bromomethane			50.0	43.34		ug/L		87	53 - 150	1	19
Carbon disulfide			50.0	36.20		ug/L		72	64 - 135	0	16
Carbon tetrachloride			50.0	50.75		ug/L		102	70 - 147	3	16
Chlorobenzene			50.0	46.77		ug/L		94	70 - 130	2	12
Chlorodibromomethane			50.0	52.31		ug/L		105	70 - 133	0	13
Chloroethane			50.0	36.15		ug/L		72	60 - 138	7	15
Chloroform			50.0	44.73		ug/L		89	70 - 130	0	14
Chloromethane			50.0	39.94		ug/L		80	33 - 150	2	20

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

Lab Sample ID: LCSD 490-375013/4
Matrix: Water
Analysis Batch: 375013

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
cis-1,2-Dichloroethene			50.0	44.27		ug/L		89	70 - 130	2	15
cis-1,3-Dichloropropene			50.0	49.08		ug/L		98	70 - 133	2	15
Dibromomethane			50.0	48.52		ug/L		97	70 - 130	0	14
Dichlorodifluoromethane			50.0	42.22		ug/L		84	48 - 150	6	16
Ethylbenzene			50.0	43.85		ug/L		88	70 - 130	2	12
Hexachlorobutadiene			50.0	54.05		ug/L		108	70 - 138	3	16
Isopropylbenzene			50.0	46.30		ug/L		93	70 - 131	3	13
Methyl tert-butyl ether			50.0	46.72		ug/L		93	70 - 130	2	16
Methylene Chloride			50.0	48.61		ug/L		97	70 - 130	1	15
Naphthalene			50.0	57.79		ug/L		116	54 - 150	2	15
n-Butylbenzene			50.0	45.63		ug/L		91	68 - 137	0	14
N-Propylbenzene			50.0	42.94		ug/L		86	70 - 134	0	14
p-Isopropyltoluene			50.0	46.26		ug/L		93	66 - 130	1	13
sec-Butylbenzene			50.0	46.27		ug/L		93	70 - 135	2	14
Styrene			50.0	46.10		ug/L		92	70 - 130	2	12
tert-Butylbenzene			50.0	46.54		ug/L		93	70 - 130	3	14
Tetrachloroethene			50.0	48.30		ug/L		97	70 - 130	2	17
Toluene			50.0	42.38		ug/L		85	70 - 130	0	13
trans-1,2-Dichloroethene			50.0	43.92		ug/L		88	70 - 130	2	15
trans-1,3-Dichloropropene			50.0	49.38		ug/L		99	63 - 142	1	13
Trichloroethene			50.0	46.49		ug/L		93	70 - 130	2	14
Trichlorofluoromethane			50.0	46.54		ug/L		93	59 - 150	3	22
Vinyl chloride			50.0	41.68		ug/L		83	57 - 137	15	15
Xylenes, Total			100	87.47		ug/L		87	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-112439-3 MS
Matrix: Water
Analysis Batch: 375013

Client Sample ID: MW-8 SBR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		250	250.8		ug/L		100	70 - 131
1,1,1-Trichloroethane	ND		250	245.6		ug/L		98	68 - 144
1,1,2,2-Tetrachloroethane	ND		250	272.6		ug/L		109	56 - 145
1,1,2-Trichloroethane	ND		250	240.2		ug/L		96	70 - 130
1,1-Dichloroethane	ND		250	239.2		ug/L		96	61 - 139
1,1-Dichloroethene	ND		250	233.0		ug/L		93	54 - 150
1,1-Dichloropropene	ND		250	240.2		ug/L		96	54 - 150
1,2,3-Trichlorobenzene	ND		250	242.3		ug/L		97	36 - 150
1,2,3-Trichloropropane	ND		250	249.0		ug/L		100	65 - 131
1,2,4-Trichlorobenzene	ND		250	250.1		ug/L		100	47 - 147
1,2,4-Trimethylbenzene	ND		250	236.1		ug/L		94	64 - 136
1,2-Dibromo-3-Chloropropane	ND		250	286.7		ug/L		115	38 - 138

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

Lab Sample ID: 490-112439-3 MS
Matrix: Water
Analysis Batch: 375013

Client Sample ID: MW-8 SBR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND		250	261.5		ug/L		105	65 - 137
1,2-Dichlorobenzene	ND		250	247.5		ug/L		99	70 - 130
1,2-Dichloroethane	ND		250	245.8		ug/L		98	64 - 136
1,2-Dichloropropane	ND		250	240.7		ug/L		96	67 - 130
1,3,5-Trimethylbenzene	ND		250	238.2		ug/L		95	69 - 139
1,3-Dichlorobenzene	ND		250	246.3		ug/L		99	68 - 131
1,3-Dichloropropane	ND		250	247.3		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		250	242.2		ug/L		97	70 - 130
2,2-Dichloropropane	ND		250	230.2		ug/L		92	50 - 146
2-Butanone (MEK)	ND		1250	1267		ug/L		101	50 - 143
2-Chlorotoluene	ND		250	240.0		ug/L		96	67 - 138
2-Hexanone	ND		1250	1167		ug/L		93	44 - 150
4-Chlorotoluene	ND		250	236.8		ug/L		95	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		1250	1162		ug/L		93	50 - 140
Acetone	ND		1250	1220		ug/L		98	39 - 150
Benzene	ND		250	234.9		ug/L		94	55 - 147
Bromobenzene	ND		250	250.2		ug/L		100	60 - 133
Bromochloromethane	ND		250	248.7		ug/L		99	59 - 132
Bromodichloromethane	ND		250	241.4		ug/L		97	70 - 140
Bromoform	ND		250	250.9		ug/L		100	53 - 150
Bromomethane	ND		250	189.1		ug/L		76	30 - 150
Carbon disulfide	ND		250	190.9		ug/L		76	35 - 150
Carbon tetrachloride	ND		250	257.4		ug/L		103	56 - 150
Chlorobenzene	ND		250	247.2		ug/L		99	70 - 130
Chlorodibromomethane	ND		250	270.3		ug/L		108	66 - 140
Chloroethane	ND		250	258.8		ug/L		104	58 - 141
Chloroform	ND		250	236.0		ug/L		94	66 - 138
Chloromethane	ND		250	224.6		ug/L		90	10 - 150
cis-1,2-Dichloroethene	1.44	J	250	241.2		ug/L		96	68 - 131
cis-1,3-Dichloropropene	ND		250	257.6		ug/L		103	70 - 133
Dibromomethane	ND		250	250.8		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		250	241.7		ug/L		97	10 - 150
Ethylbenzene	ND		250	234.4		ug/L		94	65 - 139
Hexachlorobutadiene	ND		250	235.0		ug/L		94	61 - 141
Isopropylbenzene	ND		250	248.5		ug/L		99	70 - 137
Methyl tert-butyl ether	ND		250	246.9		ug/L		99	55 - 141
Methylene Chloride	ND		250	258.7		ug/L		103	64 - 130
Naphthalene	ND		250	256.8		ug/L		103	32 - 150
n-Butylbenzene	ND		250	236.2		ug/L		94	61 - 141
N-Propylbenzene	ND		250	247.7		ug/L		99	53 - 150
p-Isopropyltoluene	ND		250	243.6		ug/L		97	66 - 137
sec-Butylbenzene	ND		250	247.5		ug/L		99	55 - 136
Styrene	ND		250	240.8		ug/L		96	70 - 130
tert-Butylbenzene	ND		250	255.6		ug/L		102	70 - 138
Tetrachloroethene	1.26	J	250	251.5		ug/L		100	57 - 138
Toluene	ND		250	233.2		ug/L		93	64 - 136
trans-1,2-Dichloroethene	ND		250	234.2		ug/L		94	59 - 143
trans-1,3-Dichloropropene	ND		250	257.1		ug/L		103	63 - 142

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

Lab Sample ID: 490-112439-3 MS
Matrix: Water
Analysis Batch: 375013

Client Sample ID: MW-8 SBR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	290		250	521.5		ug/L		93	63 - 135
Trichlorofluoromethane	ND		250	221.1		ug/L		88	44 - 150
Vinyl chloride	ND		250	274.9		ug/L		110	57 - 150
Xylenes, Total	ND		500	462.4		ug/L		92	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-112439-3 MSD
Matrix: Water
Analysis Batch: 375013

Client Sample ID: MW-8 SBR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	237.8		ug/L		95	70 - 131	5	16
1,1,1-Trichloroethane	ND		250	240.5		ug/L		96	68 - 144	2	17
1,1,2,2-Tetrachloroethane	ND		250	263.5		ug/L		105	56 - 145	3	19
1,1,2-Trichloroethane	ND		250	231.8		ug/L		93	70 - 130	4	18
1,1-Dichloroethane	ND		250	229.6		ug/L		92	61 - 139	4	23
1,1-Dichloroethene	ND		250	227.0		ug/L		91	54 - 150	3	24
1,1-Dichloropropene	ND		250	234.6		ug/L		94	54 - 150	2	24
1,2,3-Trichlorobenzene	ND		250	300.4		ug/L		120	36 - 150	21	43
1,2,3-Trichloropropane	ND		250	241.4		ug/L		97	65 - 131	3	19
1,2,4-Trichlorobenzene	ND		250	282.4		ug/L		113	47 - 147	12	24
1,2,4-Trimethylbenzene	ND		250	234.7		ug/L		94	64 - 136	1	18
1,2-Dibromo-3-Chloropropane	ND		250	283.6		ug/L		113	38 - 138	1	26
1,2-Dibromoethane (EDB)	ND		250	249.7		ug/L		100	65 - 137	5	21
1,2-Dichlorobenzene	ND		250	244.1		ug/L		98	70 - 130	1	15
1,2-Dichloroethane	ND		250	235.5		ug/L		94	64 - 136	4	22
1,2-Dichloropropane	ND		250	232.4		ug/L		93	67 - 130	3	19
1,3,5-Trimethylbenzene	ND		250	242.9		ug/L		97	69 - 139	2	17
1,3-Dichlorobenzene	ND		250	240.0		ug/L		96	68 - 131	3	14
1,3-Dichloropropane	ND		250	237.2		ug/L		95	70 - 130	4	17
1,4-Dichlorobenzene	ND		250	236.8		ug/L		95	70 - 130	2	14
2,2-Dichloropropane	ND		250	229.1		ug/L		92	50 - 146	0	20
2-Butanone (MEK)	ND		1250	1171		ug/L		94	50 - 143	8	28
2-Chlorotoluene	ND		250	239.6		ug/L		96	67 - 138	0	17
2-Hexanone	ND		1250	1092		ug/L		87	44 - 150	7	21
4-Chlorotoluene	ND		250	236.9		ug/L		95	69 - 138	0	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1059		ug/L		85	50 - 140	9	24
Acetone	ND		1250	1066		ug/L		85	39 - 150	13	28
Benzene	ND		250	227.7		ug/L		91	55 - 147	3	22
Bromobenzene	ND		250	246.7		ug/L		99	60 - 133	1	18
Bromochloromethane	ND		250	239.4		ug/L		96	59 - 132	4	21
Bromodichloromethane	ND		250	236.0		ug/L		94	70 - 140	2	196
Bromoform	ND		250	245.9		ug/L		98	53 - 150	2	20

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

Lab Sample ID: 490-112439-3 MSD
Matrix: Water
Analysis Batch: 375013

Client Sample ID: MW-8 SBR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		250	202.1		ug/L		81	30 - 150	7	44
Carbon disulfide	ND		250	189.4		ug/L		76	35 - 150	1	34
Carbon tetrachloride	ND		250	252.3		ug/L		101	56 - 150	2	18
Chlorobenzene	ND		250	240.0		ug/L		96	70 - 130	3	15
Chlorodibromomethane	ND		250	258.1		ug/L		103	66 - 140	5	19
Chloroethane	ND		250	252.7		ug/L		101	58 - 141	2	31
Chloroform	ND		250	229.2		ug/L		92	66 - 138	3	21
Chloromethane	ND		250	214.7		ug/L		86	10 - 150	4	43
cis-1,2-Dichloroethene	1.44	J	250	235.5		ug/L		94	68 - 131	2	21
cis-1,3-Dichloropropene	ND		250	246.1		ug/L		98	70 - 133	5	19
Dibromomethane	ND		250	241.6		ug/L		97	70 - 130	4	19
Dichlorodifluoromethane	ND		250	231.2		ug/L		92	10 - 150	4	50
Ethylbenzene	ND		250	227.6		ug/L		91	65 - 139	3	18
Hexachlorobutadiene	ND		250	273.7		ug/L		109	61 - 141	15	26
Isopropylbenzene	ND		250	244.3		ug/L		98	70 - 137	2	17
Methyl tert-butyl ether	ND		250	230.6		ug/L		92	55 - 141	7	24
Methylene Chloride	ND		250	245.8		ug/L		98	64 - 130	5	22
Naphthalene	ND		250	292.0		ug/L		117	32 - 150	13	40
n-Butylbenzene	ND		250	246.4		ug/L		99	61 - 141	4	17
N-Propylbenzene	ND		250	248.7		ug/L		99	53 - 150	0	18
p-Isopropyltoluene	ND		250	247.3		ug/L		99	66 - 137	1	16
sec-Butylbenzene	ND		250	251.1		ug/L		100	55 - 136	1	50
Styrene	ND		250	233.0		ug/L		93	70 - 130	3	16
tert-Butylbenzene	ND		250	255.4		ug/L		102	70 - 138	0	17
Tetrachloroethene	1.26	J	250	246.5		ug/L		98	57 - 138	2	17
Toluene	ND		250	222.5		ug/L		89	64 - 136	5	18
trans-1,2-Dichloroethene	ND		250	228.6		ug/L		91	59 - 143	2	25
trans-1,3-Dichloropropene	ND		250	246.2		ug/L		98	63 - 142	4	18
Trichloroethene	290		250	510.9		ug/L		88	63 - 135	2	17
Trichlorofluoromethane	ND		250	216.0		ug/L		86	44 - 150	2	32
Vinyl chloride	ND		250	264.4		ug/L		106	57 - 150	4	37
Xylenes, Total	ND		500	447.5		ug/L		90	69 - 132	3	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 490-375165/7
Matrix: Water
Analysis Batch: 375165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			10/04/16 12:44	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			10/04/16 12:44	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			10/04/16 12:44	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			10/04/16 12:44	1

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

Lab Sample ID: MB 490-375165/7
Matrix: Water
Analysis Batch: 375165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.00	0.240	ug/L			10/04/16 12:44	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			10/04/16 12:44	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			10/04/16 12:44	1
1,2,3-Trichlorobenzene	0.7564	J	1.00	0.230	ug/L			10/04/16 12:44	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			10/04/16 12:44	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			10/04/16 12:44	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			10/04/16 12:44	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			10/04/16 12:44	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			10/04/16 12:44	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			10/04/16 12:44	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			10/04/16 12:44	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			10/04/16 12:44	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			10/04/16 12:44	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			10/04/16 12:44	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			10/04/16 12:44	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			10/04/16 12:44	1
2-Hexanone	ND		10.0	1.28	ug/L			10/04/16 12:44	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			10/04/16 12:44	1
Acetone	ND		25.0	2.66	ug/L			10/04/16 12:44	1
Benzene	ND		1.00	0.200	ug/L			10/04/16 12:44	1
Bromobenzene	ND		1.00	0.210	ug/L			10/04/16 12:44	1
Bromochloromethane	ND		1.00	0.150	ug/L			10/04/16 12:44	1
Bromodichloromethane	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Bromoform	ND		1.00	0.290	ug/L			10/04/16 12:44	1
Bromomethane	ND		1.00	0.350	ug/L			10/04/16 12:44	1
Carbon disulfide	ND		1.00	0.220	ug/L			10/04/16 12:44	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			10/04/16 12:44	1
Chlorobenzene	ND		1.00	0.180	ug/L			10/04/16 12:44	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			10/04/16 12:44	1
Chloroethane	ND		1.00	0.360	ug/L			10/04/16 12:44	1
Chloroform	ND		1.00	0.230	ug/L			10/04/16 12:44	1
Chloromethane	ND		1.00	0.360	ug/L			10/04/16 12:44	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			10/04/16 12:44	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Dibromomethane	ND		1.00	0.450	ug/L			10/04/16 12:44	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Ethylbenzene	ND		1.00	0.190	ug/L			10/04/16 12:44	1
Hexachlorobutadiene	2.084		2.00	0.380	ug/L			10/04/16 12:44	1
Isopropylbenzene	ND		1.00	0.330	ug/L			10/04/16 12:44	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Methylene Chloride	ND		5.00	1.00	ug/L			10/04/16 12:44	1
Naphthalene	0.3528	J	5.00	0.210	ug/L			10/04/16 12:44	1
n-Butylbenzene	ND		1.00	0.240	ug/L			10/04/16 12:44	1
N-Propylbenzene	ND		1.00	0.170	ug/L			10/04/16 12:44	1

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

Lab Sample ID: MB 490-375165/7
Matrix: Water
Analysis Batch: 375165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Styrene	ND		1.00	0.280	ug/L			10/04/16 12:44	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Tetrachloroethene	ND		1.00	0.140	ug/L			10/04/16 12:44	1
Toluene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			10/04/16 12:44	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			10/04/16 12:44	1
Trichloroethene	ND		1.00	0.200	ug/L			10/04/16 12:44	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			10/04/16 12:44	1
Vinyl chloride	ND		1.00	0.180	ug/L			10/04/16 12:44	1
Xylenes, Total	ND		3.00	0.580	ug/L			10/04/16 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/04/16 12:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/04/16 12:44*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/04/16 12:44*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/04/16 12:44*	*1*

Lab Sample ID: LCS 490-375165/3
Matrix: Water
Analysis Batch: 375165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	45.52		ug/L		91	70 - 130
1,1,1-Trichloroethane	50.0	44.88		ug/L		90	70 - 135
1,1,2,2-Tetrachloroethane	50.0	50.54		ug/L		101	69 - 131
1,1,2-Trichloroethane	50.0	44.05		ug/L		88	70 - 130
1,1-Dichloroethane	50.0	43.23		ug/L		86	70 - 130
1,1-Dichloroethene	50.0	43.15		ug/L		86	70 - 132
1,1-Dichloropropene	50.0	44.06		ug/L		88	70 - 130
1,2,3-Trichlorobenzene	50.0	58.34		ug/L		117	46 - 150
1,2,3-Trichloropropane	50.0	46.41		ug/L		93	70 - 131
1,2,4-Trichlorobenzene	50.0	56.53		ug/L		113	58 - 147
1,2,4-Trimethylbenzene	50.0	45.25		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.90		ug/L		106	45 - 138
1,2-Dibromoethane (EDB)	50.0	47.81		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	46.60		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	45.85		ug/L		92	70 - 130
1,2-Dichloropropane	50.0	43.96		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	50.0	46.29		ug/L		93	70 - 130
1,3-Dichlorobenzene	50.0	47.26		ug/L		95	70 - 130
1,3-Dichloropropane	50.0	45.44		ug/L		91	70 - 130
1,4-Dichlorobenzene	50.0	46.08		ug/L		92	70 - 130
2,2-Dichloropropane	50.0	52.04		ug/L		104	60 - 143
2-Butanone (MEK)	250	228.9		ug/L		92	55 - 143
2-Chlorotoluene	50.0	45.31		ug/L		91	70 - 130
2-Hexanone	250	212.9		ug/L		85	54 - 142

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

Lab Sample ID: LCS 490-375165/3
Matrix: Water
Analysis Batch: 375165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	44.63		ug/L		89	70 - 130
4-Methyl-2-pentanone (MIBK)	250	207.7		ug/L		83	60 - 137
Acetone	250	239.1		ug/L		96	39 - 150
Benzene	50.0	43.63		ug/L		87	70 - 130
Bromobenzene	50.0	47.15		ug/L		94	70 - 130
Bromochloromethane	50.0	46.28		ug/L		93	70 - 130
Bromodichloromethane	50.0	44.65		ug/L		89	70 - 130
Bromoform	50.0	46.65		ug/L		93	70 - 137
Bromomethane	50.0	42.18		ug/L		84	53 - 150
Carbon disulfide	50.0	38.11		ug/L		76	64 - 135
Carbon tetrachloride	50.0	46.62		ug/L		93	70 - 147
Chlorobenzene	50.0	46.07		ug/L		92	70 - 130
Chlorodibromomethane	50.0	49.34		ug/L		99	70 - 133
Chloroethane	50.0	47.97		ug/L		96	60 - 138
Chloroform	50.0	43.16		ug/L		86	70 - 130
Chloromethane	50.0	41.55		ug/L		83	33 - 150
cis-1,2-Dichloroethene	50.0	44.90		ug/L		90	70 - 130
cis-1,3-Dichloropropene	50.0	48.96		ug/L		98	70 - 133
Dibromomethane	50.0	46.94		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	57.99		ug/L		116	48 - 150
Ethylbenzene	50.0	43.45		ug/L		87	70 - 130
Hexachlorobutadiene	50.0	53.10		ug/L		106	70 - 138
Isopropylbenzene	50.0	45.50		ug/L		91	70 - 131
Methyl tert-butyl ether	50.0	44.95		ug/L		90	70 - 130
Methylene Chloride	50.0	47.58		ug/L		95	70 - 130
Naphthalene	50.0	55.69		ug/L		111	54 - 150
n-Butylbenzene	50.0	48.44		ug/L		97	68 - 137
N-Propylbenzene	50.0	46.99		ug/L		94	70 - 134
p-Isopropyltoluene	50.0	47.83		ug/L		96	66 - 130
sec-Butylbenzene	50.0	47.83		ug/L		96	70 - 135
Styrene	50.0	44.67		ug/L		89	70 - 130
tert-Butylbenzene	50.0	48.04		ug/L		96	70 - 130
Tetrachloroethene	50.0	47.10		ug/L		94	70 - 130
Toluene	50.0	42.75		ug/L		86	70 - 130
trans-1,2-Dichloroethene	50.0	44.33		ug/L		89	70 - 130
trans-1,3-Dichloropropene	50.0	48.55		ug/L		97	63 - 142
Trichloroethene	50.0	44.84		ug/L		90	70 - 130
Trichlorofluoromethane	50.0	42.93		ug/L		86	59 - 150
Vinyl chloride	50.0	49.56		ug/L		99	57 - 137
Xylenes, Total	100	85.69		ug/L		86	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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

Lab Sample ID: LCSD 490-375165/4
Matrix: Water
Analysis Batch: 375165

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
1,1,1,2-Tetrachloroethane	50.0	45.00		ug/L		90	70 - 130	1	13
1,1,1-Trichloroethane	50.0	42.05		ug/L		84	70 - 135	7	15
1,1,2,2-Tetrachloroethane	50.0	49.43		ug/L		99	69 - 131	2	15
1,1,2-Trichloroethane	50.0	44.26		ug/L		89	70 - 130	0	13
1,1-Dichloroethane	50.0	41.39		ug/L		83	70 - 130	4	17
1,1-Dichloroethene	50.0	40.43		ug/L		81	70 - 132	6	20
1,1-Dichloropropene	50.0	41.85		ug/L		84	70 - 130	5	16
1,2,3-Trichlorobenzene	50.0	59.53		ug/L		119	46 - 150	2	16
1,2,3-Trichloropropane	50.0	46.90		ug/L		94	70 - 131	1	14
1,2,4-Trichlorobenzene	50.0	56.07		ug/L		112	58 - 147	1	15
1,2,4-Trimethylbenzene	50.0	43.04		ug/L		86	70 - 130	5	13
1,2-Dibromo-3-Chloropropane	50.0	55.24		ug/L		110	45 - 138	4	19
1,2-Dibromoethane (EDB)	50.0	48.95		ug/L		98	70 - 130	2	13
1,2-Dichlorobenzene	50.0	45.65		ug/L		91	70 - 130	2	12
1,2-Dichloroethane	50.0	45.24		ug/L		90	70 - 130	1	13
1,2-Dichloropropane	50.0	42.85		ug/L		86	70 - 130	3	15
1,3,5-Trimethylbenzene	50.0	44.05		ug/L		88	70 - 130	5	14
1,3-Dichlorobenzene	50.0	45.13		ug/L		90	70 - 130	5	13
1,3-Dichloropropane	50.0	46.19		ug/L		92	70 - 130	2	12
1,4-Dichlorobenzene	50.0	44.76		ug/L		90	70 - 130	3	12
2,2-Dichloropropane	50.0	49.50		ug/L		99	60 - 143	5	20
2-Butanone (MEK)	250	232.6		ug/L		93	55 - 143	2	19
2-Chlorotoluene	50.0	42.88		ug/L		86	70 - 130	5	15
2-Hexanone	250	219.8		ug/L		88	54 - 142	3	17
4-Chlorotoluene	50.0	42.99		ug/L		86	70 - 130	4	15
4-Methyl-2-pentanone (MIBK)	250	213.5		ug/L		85	60 - 137	3	21
Acetone	250	221.2		ug/L		88	39 - 150	8	23
Benzene	50.0	41.52		ug/L		83	70 - 130	5	12
Bromobenzene	50.0	44.97		ug/L		90	70 - 130	5	16
Bromochloromethane	50.0	45.57		ug/L		91	70 - 130	2	16
Bromodichloromethane	50.0	43.41		ug/L		87	70 - 130	3	14
Bromoform	50.0	46.97		ug/L		94	70 - 137	1	14
Bromomethane	50.0	40.16		ug/L		80	53 - 150	5	19
Carbon disulfide	50.0	35.94		ug/L		72	64 - 135	6	16
Carbon tetrachloride	50.0	43.99		ug/L		88	70 - 147	6	16
Chlorobenzene	50.0	44.55		ug/L		89	70 - 130	3	12
Chlorodibromomethane	50.0	50.00		ug/L		100	70 - 133	1	13
Chloroethane	50.0	45.63		ug/L		91	60 - 138	5	15
Chloroform	50.0	42.04		ug/L		84	70 - 130	3	14
Chloromethane	50.0	39.47		ug/L		79	33 - 150	5	20
cis-1,2-Dichloroethene	50.0	41.85		ug/L		84	70 - 130	7	15
cis-1,3-Dichloropropene	50.0	48.27		ug/L		97	70 - 133	1	15
Dibromomethane	50.0	46.69		ug/L		93	70 - 130	1	14
Dichlorodifluoromethane	50.0	40.83	*	ug/L		82	48 - 150	35	16
Ethylbenzene	50.0	41.54		ug/L		83	70 - 130	4	12
Hexachlorobutadiene	50.0	51.89		ug/L		104	70 - 138	2	16
Isopropylbenzene	50.0	43.90		ug/L		88	70 - 131	4	13
Methyl tert-butyl ether	50.0	45.61		ug/L		91	70 - 130	1	16

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

Lab Sample ID: LCSD 490-375165/4
Matrix: Water
Analysis Batch: 375165

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
Methylene Chloride			50.0	46.27		ug/L		93	70 - 130	3	15
Naphthalene			50.0	56.72		ug/L		113	54 - 150	2	15
n-Butylbenzene			50.0	45.49		ug/L		91	68 - 137	6	14
N-Propylbenzene			50.0	44.09		ug/L		88	70 - 134	6	14
p-Isopropyltoluene			50.0	45.06		ug/L		90	66 - 130	6	13
sec-Butylbenzene			50.0	45.07		ug/L		90	70 - 135	6	14
Styrene			50.0	43.66		ug/L		87	70 - 130	2	12
tert-Butylbenzene			50.0	45.35		ug/L		91	70 - 130	6	14
Tetrachloroethene			50.0	44.30		ug/L		89	70 - 130	6	17
Toluene			50.0	41.15		ug/L		82	70 - 130	4	13
trans-1,2-Dichloroethene			50.0	41.38		ug/L		83	70 - 130	7	15
trans-1,3-Dichloropropene			50.0	48.68		ug/L		97	63 - 142	0	13
Trichloroethene			50.0	42.90		ug/L		86	70 - 130	4	14
Trichlorofluoromethane			50.0	40.34		ug/L		81	59 - 150	6	22
Vinyl chloride			50.0	46.98		ug/L		94	57 - 137	5	15
Xylenes, Total			100	82.26		ug/L		82	70 - 132	4	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-112442-B-12 MS
Matrix: Water
Analysis Batch: 375165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		250	231.9		ug/L		93	70 - 131
1,1,1-Trichloroethane	ND		250	231.5		ug/L		93	68 - 144
1,1,2,2-Tetrachloroethane	ND		250	241.7		ug/L		97	56 - 145
1,1,2-Trichloroethane	ND		250	221.3		ug/L		89	70 - 130
1,1-Dichloroethane	ND		250	214.9		ug/L		86	61 - 139
1,1-Dichloroethene	ND		250	203.2		ug/L		81	54 - 150
1,1-Dichloropropene	ND		250	214.6		ug/L		86	54 - 150
1,2,3-Trichlorobenzene	ND		250	231.1		ug/L		92	36 - 150
1,2,3-Trichloropropane	ND		250	219.9		ug/L		88	65 - 131
1,2,4-Trichlorobenzene	ND		250	240.0		ug/L		96	47 - 147
1,2,4-Trimethylbenzene	0.963	J	250	218.1		ug/L		87	64 - 136
1,2-Dibromo-3-Chloropropane	ND		250	262.7		ug/L		105	38 - 138
1,2-Dibromoethane (EDB)	ND		250	236.0		ug/L		94	65 - 137
1,2-Dichlorobenzene	ND		250	229.2		ug/L		92	70 - 130
1,2-Dichloroethane	ND		250	236.3		ug/L		95	64 - 136
1,2-Dichloropropane	ND		250	214.3		ug/L		86	67 - 130
1,3,5-Trimethylbenzene	ND		250	217.1		ug/L		87	69 - 139
1,3-Dichlorobenzene	ND		250	230.5		ug/L		92	68 - 131
1,3-Dichloropropane	ND		250	223.8		ug/L		90	70 - 130
1,4-Dichlorobenzene	ND		250	225.3		ug/L		90	70 - 130

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

Lab Sample ID: 490-112442-B-12 MS
Matrix: Water
Analysis Batch: 375165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		250	256.1		ug/L		102	50 - 146
2-Butanone (MEK)	ND		1250	1125		ug/L		90	50 - 143
2-Chlorotoluene	ND		250	216.1		ug/L		86	67 - 138
2-Hexanone	ND		1250	1022		ug/L		82	44 - 150
4-Chlorotoluene	ND		250	214.6		ug/L		86	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		1250	1019		ug/L		82	50 - 140
Acetone	ND		1250	1086		ug/L		87	39 - 150
Benzene	146		250	350.1		ug/L		82	55 - 147
Bromobenzene	ND		250	221.1		ug/L		88	60 - 133
Bromochloromethane	ND		250	227.3		ug/L		91	59 - 132
Bromodichloromethane	ND		250	226.6		ug/L		91	70 - 140
Bromoform	ND		250	239.8		ug/L		96	53 - 150
Bromomethane	ND		250	150.6		ug/L		60	30 - 150
Carbon disulfide	ND		250	145.9		ug/L		58	35 - 150
Carbon tetrachloride	ND		250	243.2		ug/L		97	56 - 150
Chlorobenzene	ND		250	227.0		ug/L		91	70 - 130
Chlorodibromomethane	ND		250	249.5		ug/L		100	66 - 140
Chloroethane	ND		250	221.3		ug/L		89	58 - 141
Chloroform	ND		250	220.0		ug/L		88	66 - 138
Chloromethane	ND		250	187.3		ug/L		75	10 - 150
cis-1,2-Dichloroethene	ND		250	218.3		ug/L		87	68 - 131
cis-1,3-Dichloropropene	ND		250	236.6		ug/L		95	70 - 133
Dibromomethane	ND		250	227.0		ug/L		91	70 - 130
Dichlorodifluoromethane	ND	*	250	281.8		ug/L		113	10 - 150
Ethylbenzene	4.16	J	250	217.1		ug/L		85	65 - 139
Hexachlorobutadiene	ND		250	234.9		ug/L		94	61 - 141
Isopropylbenzene	7.32		250	235.1		ug/L		91	70 - 137
Methyl tert-butyl ether	224		250	446.4		ug/L		89	55 - 141
Methylene Chloride	ND		250	231.3		ug/L		93	64 - 130
Naphthalene	2.24	J B	250	240.0		ug/L		95	32 - 150
n-Butylbenzene	1.68	J	250	227.0		ug/L		90	61 - 141
N-Propylbenzene	4.09	J	250	223.8		ug/L		88	53 - 150
p-Isopropyltoluene	ND		250	228.3		ug/L		91	66 - 137
sec-Butylbenzene	1.47	J	250	230.4		ug/L		92	55 - 136
Styrene	ND		250	223.1		ug/L		89	70 - 130
tert-Butylbenzene	ND		250	233.4		ug/L		93	70 - 138
Tetrachloroethene	ND		250	229.7		ug/L		92	57 - 138
Toluene	2.11	J	250	209.1		ug/L		83	64 - 136
trans-1,2-Dichloroethene	ND		250	203.8		ug/L		82	59 - 143
trans-1,3-Dichloropropene	ND		250	238.2		ug/L		95	63 - 142
Trichloroethene	ND		250	219.9		ug/L		88	63 - 135
Trichlorofluoromethane	ND		250	205.3		ug/L		82	44 - 150
Vinyl chloride	ND		250	227.2		ug/L		91	57 - 150
Xylenes, Total	ND		500	424.3		ug/L		85	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: 490-112442-B-12 MS
Matrix: Water
Analysis Batch: 375165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-112442-B-12 MSD
Matrix: Water
Analysis Batch: 375165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	241.4		ug/L		97	70 - 131	4	16
1,1,1-Trichloroethane	ND		250	238.0		ug/L		95	68 - 144	3	17
1,1,2,2-Tetrachloroethane	ND		250	246.8		ug/L		99	56 - 145	2	19
1,1,2-Trichloroethane	ND		250	223.7		ug/L		89	70 - 130	1	18
1,1-Dichloroethane	ND		250	219.6		ug/L		88	61 - 139	2	23
1,1-Dichloroethene	ND		250	209.0		ug/L		84	54 - 150	3	24
1,1-Dichloropropene	ND		250	217.5		ug/L		87	54 - 150	1	24
1,2,3-Trichlorobenzene	ND		250	297.9		ug/L		119	36 - 150	25	43
1,2,3-Trichloropropane	ND		250	223.9		ug/L		90	65 - 131	2	19
1,2,4-Trichlorobenzene	ND		250	281.0		ug/L		112	47 - 147	16	24
1,2,4-Trimethylbenzene	0.963	J	250	225.6		ug/L		90	64 - 136	3	18
1,2-Dibromo-3-Chloropropane	ND		250	268.5		ug/L		107	38 - 138	2	26
1,2-Dibromoethane (EDB)	ND		250	237.6		ug/L		95	65 - 137	1	21
1,2-Dichlorobenzene	ND		250	240.0		ug/L		96	70 - 130	5	15
1,2-Dichloroethane	ND		250	238.0		ug/L		95	64 - 136	1	22
1,2-Dichloropropane	ND		250	220.8		ug/L		88	67 - 130	3	19
1,3,5-Trimethylbenzene	ND		250	225.2		ug/L		90	69 - 139	4	17
1,3-Dichlorobenzene	ND		250	239.1		ug/L		96	68 - 131	4	14
1,3-Dichloropropane	ND		250	227.6		ug/L		91	70 - 130	2	17
1,4-Dichlorobenzene	ND		250	234.2		ug/L		94	70 - 130	4	14
2,2-Dichloropropane	ND		250	256.6		ug/L		103	50 - 146	0	20
2-Butanone (MEK)	ND		1250	1140		ug/L		91	50 - 143	1	28
2-Chlorotoluene	ND		250	223.4		ug/L		89	67 - 138	3	17
2-Hexanone	ND		1250	1026		ug/L		82	44 - 150	0	21
4-Chlorotoluene	ND		250	222.3		ug/L		89	69 - 138	4	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1025		ug/L		82	50 - 140	1	24
Acetone	ND		1250	1045		ug/L		84	39 - 150	4	28
Benzene	146		250	353.9		ug/L		83	55 - 147	1	22
Bromobenzene	ND		250	225.0		ug/L		90	60 - 133	2	18
Bromochloromethane	ND		250	229.5		ug/L		92	59 - 132	1	21
Bromodichloromethane	ND		250	231.7		ug/L		93	70 - 140	2	196
Bromoform	ND		250	237.7		ug/L		95	53 - 150	1	20
Bromomethane	ND		250	185.7		ug/L		74	30 - 150	21	44
Carbon disulfide	ND		250	150.4		ug/L		60	35 - 150	3	34
Carbon tetrachloride	ND		250	249.4		ug/L		100	56 - 150	3	18
Chlorobenzene	ND		250	233.3		ug/L		93	70 - 130	3	15
Chlorodibromomethane	ND		250	255.0		ug/L		102	66 - 140	2	19
Chloroethane	ND		250	226.9		ug/L		91	58 - 141	2	31
Chloroform	ND		250	221.9		ug/L		89	66 - 138	1	21
Chloromethane	ND		250	189.6		ug/L		76	10 - 150	1	43

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

Lab Sample ID: 490-112442-B-12 MSD
Matrix: Water
Analysis Batch: 375165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		250	224.1		ug/L		90	68 - 131	3	21
cis-1,3-Dichloropropene	ND		250	239.6		ug/L		96	70 - 133	1	19
Dibromomethane	ND		250	232.1		ug/L		93	70 - 130	2	19
Dichlorodifluoromethane	ND	*	250	223.7		ug/L		89	10 - 150	23	50
Ethylbenzene	4.16	J	250	223.4		ug/L		88	65 - 139	3	18
Hexachlorobutadiene	ND		250	264.2		ug/L		106	61 - 141	12	26
Isopropylbenzene	7.32		250	241.9		ug/L		94	70 - 137	3	17
Methyl tert-butyl ether	224		250	438.5		ug/L		86	55 - 141	2	24
Methylene Chloride	ND		250	236.3		ug/L		95	64 - 130	2	22
Naphthalene	2.24	J B	250	283.7		ug/L		113	32 - 150	17	40
n-Butylbenzene	1.68	J	250	243.6		ug/L		97	61 - 141	7	17
N-Propylbenzene	4.09	J	250	232.9		ug/L		92	53 - 150	4	18
p-Isopropyltoluene	ND		250	241.7		ug/L		97	66 - 137	6	16
sec-Butylbenzene	1.47	J	250	244.1		ug/L		97	55 - 136	6	50
Styrene	ND		250	227.1		ug/L		91	70 - 130	2	16
tert-Butylbenzene	ND		250	244.8		ug/L		98	70 - 138	5	17
Tetrachloroethene	ND		250	236.3		ug/L		95	57 - 138	3	17
Toluene	2.11	J	250	214.9		ug/L		85	64 - 136	3	18
trans-1,2-Dichloroethene	ND		250	213.1		ug/L		85	59 - 143	4	25
trans-1,3-Dichloropropene	ND		250	241.7		ug/L		97	63 - 142	1	18
Trichloroethene	ND		250	226.3		ug/L		91	63 - 135	3	17
Trichlorofluoromethane	ND		250	207.4		ug/L		83	44 - 150	1	32
Vinyl chloride	ND		250	232.4		ug/L		93	57 - 150	2	37
Xylenes, Total	ND		500	431.4		ug/L		86	69 - 132	2	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-373096/1-A
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200	0.000100	mg/L		09/26/16 10:07	09/29/16 23:14	1

Lab Sample ID: LCS 490-373096/2-A
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.1000		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-112519-B-4-A MS
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 373096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.0115	J	0.100	0.1202		mg/L		109	75 - 125

Lab Sample ID: 490-112519-B-4-B MSD
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 373096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.0115	J	0.100	0.1266		mg/L		115	75 - 125	5	20

GC/MS VOA

Analysis Batch: 375013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112439-1	MW-37	Total/NA	Water	8260B	
490-112439-2	MW-38 SBR	Total/NA	Water	8260B	
490-112439-3	MW-8 SBR	Total/NA	Water	8260B	
490-112439-5	MW-5D	Total/NA	Water	8260B	
490-112439-6	MW-5D DUP	Total/NA	Water	8260B	
490-112439-7	MW-5	Total/NA	Water	8260B	
MB 490-375013/7	Method Blank	Total/NA	Water	8260B	
LCS 490-375013/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-375013/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-112439-3 MS	MW-8 SBR	Total/NA	Water	8260B	
490-112439-3 MSD	MW-8 SBR	Total/NA	Water	8260B	

Analysis Batch: 375165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112439-4	OBS-8	Total/NA	Water	8260B	
490-112439-7	MW-5	Total/NA	Water	8260B	
MB 490-375165/7	Method Blank	Total/NA	Water	8260B	
LCS 490-375165/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-375165/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-112442-B-12 MS	Matrix Spike	Total/NA	Water	8260B	
490-112442-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 373096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112439-5	MW-5D	Total/NA	Water	3010A	
490-112439-6	MW-5D DUP	Total/NA	Water	3010A	
490-112439-7	MW-5	Total/NA	Water	3010A	
MB 490-373096/1-A	Method Blank	Total/NA	Water	3010A	
LCS 490-373096/2-A	Lab Control Sample	Total/NA	Water	3010A	
490-112519-B-4-A MS	Matrix Spike	Total/NA	Water	3010A	
490-112519-B-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 374458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112439-5	MW-5D	Total/NA	Water	6020A	373096
490-112439-6	MW-5D DUP	Total/NA	Water	6020A	373096
490-112439-7	MW-5	Total/NA	Water	6020A	373096
MB 490-373096/1-A	Method Blank	Total/NA	Water	6020A	373096
LCS 490-373096/2-A	Lab Control Sample	Total/NA	Water	6020A	373096
490-112519-B-4-A MS	Matrix Spike	Total/NA	Water	6020A	373096
490-112519-B-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	373096

Client Sample ID: MW-37
Date Collected: 09/22/16 09:20
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375013	10/04/16 02:14	BBR	TAL NSH

Client Sample ID: MW-38 SBR
Date Collected: 09/22/16 09:53
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	375013	10/04/16 06:24	BBR	TAL NSH

Client Sample ID: MW-8 SBR
Date Collected: 09/22/16 12:21
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	375013	10/04/16 06:49	BBR	TAL NSH

Client Sample ID: OBS-8
Date Collected: 09/22/16 12:25
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	375165	10/04/16 19:27	KS	TAL NSH

Client Sample ID: MW-5D
Date Collected: 09/22/16 14:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	375013	10/04/16 07:39	BBR	TAL NSH
Total/NA	Prep	3010A			373096	09/26/16 10:07	CAH	TAL NSH
Total/NA	Analysis	6020A		10	374458	09/30/16 00:58	KKK	TAL NSH

Client Sample ID: MW-5D DUP
Date Collected: 09/22/16 14:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	375013	10/04/16 08:05	BBR	TAL NSH
Total/NA	Prep	3010A			373096	09/26/16 10:07	CAH	TAL NSH
Total/NA	Analysis	6020A		10	374458	09/30/16 01:03	KKK	TAL NSH

Lab Chronicle

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Client Sample ID: MW-5

Date Collected: 09/22/16 14:39
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112439-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	375013	10/04/16 07:14	BBR	TAL NSH
Total/NA	Analysis	8260B		100	375165	10/04/16 19:52	KS	TAL NSH
Total/NA	Prep	3010A			373096	09/26/16 10:07	CAH	TAL NSH
Total/NA	Analysis	6020A		10	374458	09/30/16 01:09	KKK	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87358	06-30-17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Atlanta
490-112439 Chain of Custody

Cooler Received/Opened On 9/23/2016 @ 0925

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 0570 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 17960357 pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 1.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Baker, Heather	Carrier Tracking No(s):	COC No: 490-57664-18614.3
Client Contact: Mr. Ron Hilliard	Phone:	E-Mail: heather.baker@testamericainc.com		Page: Page 3 of 3
Company: URS Corporation				Job #:
Address: 400 Northpark Town Center 1000 Abernathy Road N.E., Suite 90	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30328				
Phone:	PO #: Craig.Bernhoft@urs.com			
Email: ron.hilliard@aecom.com	WO #: 20500332.00001 / V#1427536			
Project Name: C&D Technologies	Project #: 49001189			
Site: 1835 Maitland Ind. Blvd, Conyers	SSOW#:			

Analysis Requested

Loc: 490
112439

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	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 - Standard 8260 List	6020A - Lead	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D		
MW-37	9/22/16	0920	G	Water			X		3	
MW-38 SBR	9/22/16	0953	G	Water			X		3	
MW-8 SBR	9/22/16	1221	G	Water			X		3	
MW-8 SBR MS	9/22/16	1221	G	Water			X		3	
MW-8 SBR MSD	9/22/16	1221	G	Water			X		3	
OBS-8	9/22/16	1225	G	Water			X		3	
MW-5D	9/22/16	1400	G	Water			X	X	~~6~~ 4	4 fld
MW-5D DUP	9/22/16	1400	G	Water			X	X	~~6~~ 4	4 fld
MW-5	9/22/16	1439	G	Water			X	X	4	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Record	Date/Time: 9/22/16	17:26	Company TA	Received by:	1.6	Date/Time: 9/23/16 0925	Company FAN
Relinquished by:	Date/Time: 9/22/16	17:26	Company URS	Received by:		Date/Time:	Company
Relinquished by:	Date/Time: 9/22/16	5:30	Company	Received by:		Date/Time:	Company

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

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10/5/2016

681-Atlanta

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 490-112439-1
SDG Number:

Login Number: 112439
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
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.	N/A	
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	

Default Detection Limits

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

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

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	1.00	0.150	ug/L	8260B
1,1,1-Trichloroethane	1.00	0.190	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.00	0.190	ug/L	8260B
1,1,2-Trichloroethane	1.00	0.190	ug/L	8260B
1,1-Dichloroethane	1.00	0.240	ug/L	8260B
1,1-Dichloroethene	1.00	0.250	ug/L	8260B
1,1-Dichloropropene	1.00	0.200	ug/L	8260B
1,2,3-Trichlorobenzene	1.00	0.230	ug/L	8260B
1,2,3-Trichloropropane	1.00	0.230	ug/L	8260B
1,2,4-Trichlorobenzene	1.00	0.200	ug/L	8260B
1,2,4-Trimethylbenzene	1.00	0.170	ug/L	8260B
1,2-Dibromo-3-Chloropropane	10.0	0.940	ug/L	8260B
1,2-Dibromoethane (EDB)	1.00	0.210	ug/L	8260B
1,2-Dichlorobenzene	1.00	0.190	ug/L	8260B
1,2-Dichloroethane	1.00	0.200	ug/L	8260B
1,2-Dichloropropane	1.00	0.250	ug/L	8260B
1,3,5-Trimethylbenzene	1.00	0.170	ug/L	8260B
1,3-Dichlorobenzene	1.00	0.180	ug/L	8260B
1,3-Dichloropropane	1.00	0.190	ug/L	8260B
1,4-Dichlorobenzene	1.00	0.170	ug/L	8260B
2,2-Dichloropropane	1.00	0.160	ug/L	8260B
2-Butanone (MEK)	50.0	2.64	ug/L	8260B
2-Chlorotoluene	1.00	0.180	ug/L	8260B
2-Hexanone	10.0	1.28	ug/L	8260B
4-Chlorotoluene	1.00	0.170	ug/L	8260B
4-Methyl-2-pentanone (MIBK)	10.0	0.810	ug/L	8260B
Acetone	25.0	2.66	ug/L	8260B
Benzene	1.00	0.200	ug/L	8260B
Bromobenzene	1.00	0.210	ug/L	8260B
Bromochloromethane	1.00	0.150	ug/L	8260B
Bromodichloromethane	1.00	0.170	ug/L	8260B
Bromoform	1.00	0.290	ug/L	8260B
Bromomethane	1.00	0.350	ug/L	8260B
Carbon disulfide	1.00	0.220	ug/L	8260B
Carbon tetrachloride	1.00	0.180	ug/L	8260B
Chlorobenzene	1.00	0.180	ug/L	8260B
Chlorodibromomethane	1.00	0.250	ug/L	8260B
Chloroethane	1.00	0.360	ug/L	8260B
Chloroform	1.00	0.230	ug/L	8260B
Chloromethane	1.00	0.360	ug/L	8260B
cis-1,2-Dichloroethene	1.00	0.210	ug/L	8260B
cis-1,3-Dichloropropene	1.00	0.170	ug/L	8260B
Dibromomethane	1.00	0.450	ug/L	8260B
Dichlorodifluoromethane	1.00	0.170	ug/L	8260B
Ethylbenzene	1.00	0.190	ug/L	8260B
Hexachlorobutadiene	2.00	0.380	ug/L	8260B
Isopropylbenzene	1.00	0.330	ug/L	8260B
Methyl tert-butyl ether	1.00	0.170	ug/L	8260B
Methylene Chloride	5.00	1.00	ug/L	8260B
Naphthalene	5.00	0.210	ug/L	8260B
n-Butylbenzene	1.00	0.240	ug/L	8260B
N-Propylbenzene	1.00	0.170	ug/L	8260B

Default Detection Limits

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112439-1

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

Analyte	RL	MDL	Units	Method
p-Isopropyltoluene	1.00	0.170	ug/L	8260B
sec-Butylbenzene	1.00	0.170	ug/L	8260B
Styrene	1.00	0.280	ug/L	8260B
tert-Butylbenzene	1.00	0.170	ug/L	8260B
Tetrachloroethene	1.00	0.140	ug/L	8260B
Toluene	1.00	0.170	ug/L	8260B
trans-1,2-Dichloroethene	1.00	0.230	ug/L	8260B
trans-1,3-Dichloropropene	1.00	0.170	ug/L	8260B
Trichloroethene	1.00	0.200	ug/L	8260B
Trichlorofluoromethane	1.00	0.210	ug/L	8260B
Vinyl chloride	1.00	0.180	ug/L	8260B
Xylenes, Total	3.00	0.580	ug/L	8260B

Method: 6020A - Metals (ICP/MS)

Prep: 3010A

Analyte	RL	MDL	Units	Method
Lead	0.00200	0.000100	mg/L	6020A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-112473-1
Client Project/Site: C&D Technologies

For:
URS Corporation
1000 Corp Centre Drive
One Corp Centre Ste
Franklin, Tennessee 37067

Attn: Mr. Craig Bernhoft

Heather Baker

Authorized for release by:
10/3/2016 12:00:45 PM

Heather Baker, Project Manager I
(615)301-5043
heather.baker@testamericainc.com

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Sample Summary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-112473-1	MW-19	Water	09/20/16 14:55	09/23/16 09:25
490-112473-2	CD-01	Water	09/20/16 15:54	09/23/16 09:25
490-112473-3	MW-20	Water	09/21/16 10:00	09/23/16 09:25
490-112473-4	MW-30 SBR	Water	09/21/16 11:52	09/23/16 09:25
490-112473-5	MW-2	Water	09/21/16 12:00	09/23/16 09:25
490-112473-6	MW-24 SBR	Water	09/21/16 13:37	09/23/16 09:25
490-112473-7	MW-29 SBR	Water	09/21/16 14:52	09/23/16 09:25
490-112473-8	MW-3	Water	09/21/16 16:53	09/23/16 09:25
490-112473-9	MW-36	Water	09/21/16 17:17	09/23/16 09:25
490-112473-10	MW-17	Water	09/21/16 17:47	09/23/16 09:25
490-112473-11	Trip Blank	Water	09/21/16 00:01	09/23/16 09:25

Job ID: 490-112473-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-112473-1

Comments
No additional comments.

Receipt
The samples were received on 9/23/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

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

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

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

Definitions/Glossary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Client Sample ID: MW-19
Date Collected: 09/20/16 14:55
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 16:36	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 16:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 16:36	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 16:36	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 16:36	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 16:36	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 16:36	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 16:36	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 16:36	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 16:36	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 16:36	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 16:36	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 16:36	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 16:36	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 16:36	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 16:36	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 16:36	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 16:36	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 16:36	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 16:36	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 16:36	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 16:36	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 16:36	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 16:36	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 16:36	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 16:36	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 16:36	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 16:36	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 16:36	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 16:36	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 16:36	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 16:36	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 16:36	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 16:36	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 16:36	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 16:36	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 16:36	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 16:36	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 16:36	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 16:36	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 16:36	1

Client Sample ID: MW-19
Date Collected: 09/20/16 14:55
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 16:36	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 16:36	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 16:36	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 16:36	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 16:36	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 16:36	1
Trichloroethene	ND		1.00	0.200	ug/L			09/30/16 16:36	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 16:36	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 16:36	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/30/16 16:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/30/16 16:36*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/30/16 16:36*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/30/16 16:36*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0226**		0.00200	0.000100	mg/L		09/26/16 10:07	09/30/16 01:25	1

Client Sample ID: CD-01
Date Collected: 09/20/16 15:54
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 17:06	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 17:06	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 17:06	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 17:06	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 17:06	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 17:06	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 17:06	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 17:06	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 17:06	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 17:06	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 17:06	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 17:06	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 17:06	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 17:06	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 17:06	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 17:06	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 17:06	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 17:06	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 17:06	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 17:06	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 17:06	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 17:06	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 17:06	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 17:06	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 17:06	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 17:06	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 17:06	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 17:06	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 17:06	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 17:06	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 17:06	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 17:06	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 17:06	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 17:06	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 17:06	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 17:06	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 17:06	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 17:06	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 17:06	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 17:06	1

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: CD-01
Date Collected: 09/20/16 15:54
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 17:06	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 17:06	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 17:06	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 17:06	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 17:06	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 17:06	1
Trichloroethene	ND		1.00	0.200	ug/L			09/30/16 17:06	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 17:06	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 17:06	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*09/30/16 17:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/30/16 17:06*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/30/16 17:06*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/30/16 17:06*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0659**		0.00200	0.000100	mg/L		09/26/16 10:07	09/30/16 01:31	1

Client Sample Results

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-20
Date Collected: 09/21/16 10:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-3
Matrix: Water

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.114		0.00200	0.000100	mg/L		09/26/16 10:07	09/30/16 01:36	1

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-30 SBR
Date Collected: 09/21/16 11:52
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 17:36	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 17:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 17:36	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 17:36	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 17:36	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 17:36	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 17:36	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 17:36	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 17:36	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 17:36	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 17:36	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 17:36	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 17:36	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 17:36	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 17:36	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 17:36	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 17:36	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 17:36	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 17:36	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 17:36	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 17:36	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 17:36	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 17:36	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 17:36	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 17:36	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 17:36	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 17:36	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 17:36	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 17:36	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 17:36	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 17:36	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 17:36	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 17:36	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 17:36	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 17:36	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 17:36	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 17:36	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 17:36	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 17:36	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 17:36	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 17:36	1

Client Sample ID: MW-30 SBR
Date Collected: 09/21/16 11:52
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 17:36	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 17:36	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 17:36	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 17:36	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 17:36	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 17:36	1
Trichloroethene	**3.46**		1.00	0.200	ug/L			09/30/16 17:36	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 17:36	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 17:36	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/30/16 17:36*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/30/16 17:36*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/30/16 17:36*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/30/16 17:36*	*1*

Client Sample ID: MW-2
Date Collected: 09/21/16 12:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 18:06	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 18:06	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 18:06	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 18:06	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 18:06	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 18:06	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 18:06	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 18:06	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 18:06	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 18:06	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 18:06	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 18:06	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 18:06	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 18:06	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 18:06	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 18:06	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 18:06	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 18:06	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 18:06	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 18:06	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 18:06	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 18:06	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 18:06	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 18:06	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 18:06	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 18:06	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 18:06	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 18:06	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 18:06	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 18:06	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 18:06	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 18:06	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 18:06	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 18:06	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 18:06	1
cis-1,2-Dichloroethene	**3.57**		1.00	0.210	ug/L			09/30/16 18:06	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 18:06	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 18:06	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 18:06	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 18:06	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 18:06	1

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-2
Date Collected: 09/21/16 12:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 18:06	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 18:06	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 18:06	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 18:06	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 18:06	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 18:06	1
Trichloroethene	**43.1**		1.00	0.200	ug/L			09/30/16 18:06	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 18:06	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 18:06	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/30/16 18:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/30/16 18:06*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/30/16 18:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/30/16 18:06*	*1*

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-24 SBR
Date Collected: 09/21/16 13:37
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 18:36	1
1,1,1-Trichloroethane	**0.211**	**J**	1.00	0.190	ug/L			09/30/16 18:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 18:36	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 18:36	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 18:36	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 18:36	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 18:36	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 18:36	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 18:36	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 18:36	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 18:36	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 18:36	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 18:36	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 18:36	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 18:36	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 18:36	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 18:36	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 18:36	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 18:36	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 18:36	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 18:36	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 18:36	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 18:36	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 18:36	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 18:36	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 18:36	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 18:36	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 18:36	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 18:36	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 18:36	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 18:36	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 18:36	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 18:36	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 18:36	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 18:36	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 18:36	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 18:36	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 18:36	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 18:36	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 18:36	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 18:36	1

Client Sample ID: MW-24 SBR
Date Collected: 09/21/16 13:37
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 18:36	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 18:36	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 18:36	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 18:36	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 18:36	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 18:36	1
Trichloroethene	**7.80**		1.00	0.200	ug/L			09/30/16 18:36	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 18:36	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 18:36	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/30/16 18:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/30/16 18:36*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/30/16 18:36*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/30/16 18:36*	*1*

Client Sample ID: MW-29 SBR
Date Collected: 09/21/16 14:52
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 19:05	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 19:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 19:05	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 19:05	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 19:05	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 19:05	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 19:05	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 19:05	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 19:05	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 19:05	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 19:05	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 19:05	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 19:05	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 19:05	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 19:05	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 19:05	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 19:05	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 19:05	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 19:05	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 19:05	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 19:05	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 19:05	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 19:05	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 19:05	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 19:05	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 19:05	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 19:05	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 19:05	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 19:05	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 19:05	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 19:05	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 19:05	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 19:05	1
Chloroform	**1.44**		1.00	0.230	ug/L			09/30/16 19:05	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 19:05	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 19:05	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 19:05	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 19:05	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 19:05	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 19:05	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 19:05	1

Client Sample ID: MW-29 SBR
Date Collected: 09/21/16 14:52
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 19:05	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 19:05	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 19:05	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Tetrachloroethene	**9.02**		1.00	0.140	ug/L			09/30/16 19:05	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 19:05	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 19:05	1
Trichloroethene	**39.0**		1.00	0.200	ug/L			09/30/16 19:05	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 19:05	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 19:05	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/30/16 19:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/30/16 19:05*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/30/16 19:05*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/30/16 19:05*	*1*

Client Sample ID: MW-3
Date Collected: 09/21/16 16:53
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 19:35	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 19:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 19:35	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 19:35	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 19:35	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 19:35	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 19:35	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 19:35	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 19:35	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 19:35	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 19:35	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 19:35	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 19:35	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 19:35	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 19:35	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 19:35	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 19:35	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 19:35	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 19:35	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 19:35	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 19:35	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 19:35	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 19:35	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 19:35	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 19:35	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 19:35	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 19:35	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 19:35	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 19:35	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 19:35	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 19:35	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 19:35	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 19:35	1
Chloroform	**0.322**	**J**	1.00	0.230	ug/L			09/30/16 19:35	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 19:35	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 19:35	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 19:35	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 19:35	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 19:35	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 19:35	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 19:35	1

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-3
Date Collected: 09/21/16 16:53
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 19:35	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 19:35	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 19:35	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Tetrachloroethene	**0.433**	**J**	1.00	0.140	ug/L			09/30/16 19:35	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 19:35	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 19:35	1
Trichloroethene	**154**		1.00	0.200	ug/L			09/30/16 19:35	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 19:35	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 19:35	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/30/16 19:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/30/16 19:35*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/30/16 19:35*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/30/16 19:35*	*1*

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-36
Date Collected: 09/21/16 17:17
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 20:05	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 20:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 20:05	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 20:05	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 20:05	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 20:05	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 20:05	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 20:05	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 20:05	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 20:05	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 20:05	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 20:05	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 20:05	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 20:05	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 20:05	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 20:05	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 20:05	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 20:05	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 20:05	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 20:05	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 20:05	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 20:05	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 20:05	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 20:05	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 20:05	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 20:05	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 20:05	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 20:05	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 20:05	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 20:05	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 20:05	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 20:05	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 20:05	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 20:05	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 20:05	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 20:05	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 20:05	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 20:05	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 20:05	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 20:05	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 20:05	1

Client Sample ID: MW-36
Date Collected: 09/21/16 17:17
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 20:05	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 20:05	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 20:05	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Tetrachloroethene	**3.15**		1.00	0.140	ug/L			09/30/16 20:05	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 20:05	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 20:05	1
Trichloroethene	**134**		1.00	0.200	ug/L			09/30/16 20:05	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 20:05	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 20:05	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/30/16 20:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/30/16 20:05*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/30/16 20:05*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/30/16 20:05*	*1*

Client Sample ID: MW-17
Date Collected: 09/21/16 17:47
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 20:35	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 20:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 20:35	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 20:35	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 20:35	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 20:35	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 20:35	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 20:35	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 20:35	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 20:35	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 20:35	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 20:35	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 20:35	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 20:35	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 20:35	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 20:35	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 20:35	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 20:35	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 20:35	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 20:35	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 20:35	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 20:35	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 20:35	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 20:35	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 20:35	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 20:35	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 20:35	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 20:35	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 20:35	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 20:35	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 20:35	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 20:35	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 20:35	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 20:35	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 20:35	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 20:35	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 20:35	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 20:35	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 20:35	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 20:35	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 20:35	1

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-17
Date Collected: 09/21/16 17:47
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 20:35	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 20:35	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 20:35	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Tetrachloroethene	**6.88**		1.00	0.140	ug/L			09/30/16 20:35	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 20:35	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 20:35	1
Trichloroethene	**6.72**		1.00	0.200	ug/L			09/30/16 20:35	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 20:35	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 20:35	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*09/30/16 20:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/30/16 20:35*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/30/16 20:35*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/30/16 20:35*	*1*

Client Sample ID: Trip Blank
Date Collected: 09/21/16 00:01
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 13:37	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 13:37	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 13:37	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 13:37	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 13:37	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 13:37	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 13:37	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 13:37	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 13:37	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 13:37	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 13:37	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 13:37	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 13:37	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 13:37	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 13:37	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 13:37	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 13:37	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 13:37	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 13:37	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 13:37	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 13:37	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 13:37	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 13:37	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 13:37	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 13:37	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 13:37	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 13:37	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 13:37	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 13:37	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 13:37	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 13:37	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 13:37	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 13:37	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 13:37	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 13:37	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 13:37	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 13:37	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 13:37	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 13:37	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 13:37	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 13:37	1

Client Sample ID: Trip Blank
Date Collected: 09/21/16 00:01
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 13:37	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 13:37	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 13:37	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 13:37	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 13:37	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 13:37	1
Trichloroethene	ND		1.00	0.200	ug/L			09/30/16 13:37	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 13:37	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 13:37	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*09/30/16 13:37*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/30/16 13:37*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/30/16 13:37*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/30/16 13:37*	*1*

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

Lab Sample ID: MB 490-374385/7
Matrix: Water
Analysis Batch: 374385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/30/16 13:07	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/30/16 13:07	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/30/16 13:07	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/30/16 13:07	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/30/16 13:07	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/30/16 13:07	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/30/16 13:07	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/30/16 13:07	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/30/16 13:07	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/30/16 13:07	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/30/16 13:07	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/30/16 13:07	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/30/16 13:07	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/30/16 13:07	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/30/16 13:07	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/30/16 13:07	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/30/16 13:07	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/30/16 13:07	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/30/16 13:07	1
2-Hexanone	ND		10.0	1.28	ug/L			09/30/16 13:07	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			09/30/16 13:07	1
Acetone	ND		25.0	2.66	ug/L			09/30/16 13:07	1
Benzene	ND		1.00	0.200	ug/L			09/30/16 13:07	1
Bromobenzene	ND		1.00	0.210	ug/L			09/30/16 13:07	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/30/16 13:07	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/30/16 13:07	1
Bromoform	ND		1.00	0.290	ug/L			09/30/16 13:07	1
Bromomethane	ND		1.00	0.350	ug/L			09/30/16 13:07	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/30/16 13:07	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/30/16 13:07	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/30/16 13:07	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/30/16 13:07	1
Chloroethane	ND		1.00	0.360	ug/L			09/30/16 13:07	1
Chloroform	ND		1.00	0.230	ug/L			09/30/16 13:07	1
Chloromethane	ND		1.00	0.360	ug/L			09/30/16 13:07	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/30/16 13:07	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
Dibromomethane	ND		1.00	0.450	ug/L			09/30/16 13:07	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/30/16 13:07	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/30/16 13:07	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/30/16 13:07	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/30/16 13:07	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/30/16 13:07	1

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

Lab Sample ID: MB 490-374385/7
Matrix: Water
Analysis Batch: 374385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	1.00	ug/L			09/30/16 13:07	1
Naphthalene	ND		5.00	0.210	ug/L			09/30/16 13:07	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/30/16 13:07	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
Styrene	ND		1.00	0.280	ug/L			09/30/16 13:07	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/30/16 13:07	1
Toluene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/30/16 13:07	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/30/16 13:07	1
Trichloroethene	ND		1.00	0.200	ug/L			09/30/16 13:07	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/30/16 13:07	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/30/16 13:07	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/30/16 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*09/30/16 13:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/30/16 13:07*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/30/16 13:07*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/30/16 13:07*	*1*

Lab Sample ID: LCS 490-374385/3
Matrix: Water
Analysis Batch: 374385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.63		ug/L		98	70 - 130
1,1,1-Trichloroethane	20.0	20.38		ug/L		102	70 - 135
1,1,2,2-Tetrachloroethane	20.0	19.84		ug/L		99	69 - 131
1,1,2-Trichloroethane	20.0	20.31		ug/L		102	70 - 130
1,1-Dichloroethane	20.0	22.59		ug/L		113	70 - 130
1,1-Dichloroethene	20.0	21.61		ug/L		108	70 - 132
1,1-Dichloropropene	20.0	20.70		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	20.0	20.64		ug/L		103	46 - 150
1,2,3-Trichloropropane	20.0	19.48		ug/L		97	70 - 131
1,2,4-Trichlorobenzene	20.0	20.71		ug/L		104	58 - 147
1,2,4-Trimethylbenzene	20.0	19.45		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.23		ug/L		96	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.87		ug/L		99	70 - 130
1,2-Dichlorobenzene	20.0	19.96		ug/L		100	70 - 130
1,2-Dichloroethane	20.0	20.75		ug/L		104	70 - 130
1,2-Dichloropropane	20.0	21.02		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	20.0	19.73		ug/L		99	70 - 130
1,3-Dichlorobenzene	20.0	19.55		ug/L		98	70 - 130
1,3-Dichloropropane	20.0	20.13		ug/L		101	70 - 130
1,4-Dichlorobenzene	20.0	19.18		ug/L		96	70 - 130

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

Lab Sample ID: LCS 490-374385/3
Matrix: Water
Analysis Batch: 374385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	20.0	21.62		ug/L		108	60 - 143
2-Butanone (MEK)	100	101.5		ug/L		102	55 - 143
2-Chlorotoluene	20.0	19.96		ug/L		100	70 - 130
2-Hexanone	100	104.4		ug/L		104	54 - 142
4-Chlorotoluene	20.0	19.96		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	100	104.9		ug/L		105	60 - 137
Acetone	100	108.2		ug/L		108	39 - 150
Benzene	20.0	20.61		ug/L		103	70 - 130
Bromobenzene	20.0	19.64		ug/L		98	70 - 130
Bromochloromethane	20.0	19.52		ug/L		98	70 - 130
Bromodichloromethane	20.0	19.09		ug/L		95	70 - 130
Bromoform	20.0	16.64		ug/L		83	70 - 137
Bromomethane	20.0	16.30		ug/L		81	53 - 150
Carbon disulfide	20.0	20.13		ug/L		101	64 - 135
Carbon tetrachloride	20.0	20.42		ug/L		102	70 - 147
Chlorobenzene	20.0	20.09		ug/L		100	70 - 130
Chlorodibromomethane	20.0	19.03		ug/L		95	70 - 133
Chloroethane	20.0	21.91		ug/L		110	60 - 138
Chloroform	20.0	20.31		ug/L		102	70 - 130
Chloromethane	20.0	20.90		ug/L		104	33 - 150
cis-1,2-Dichloroethene	20.0	21.00		ug/L		105	70 - 130
cis-1,3-Dichloropropene	20.0	20.42		ug/L		102	70 - 133
Dibromomethane	20.0	19.95		ug/L		100	70 - 130
Dichlorodifluoromethane	20.0	22.28		ug/L		111	48 - 150
Ethylbenzene	20.0	21.55		ug/L		108	70 - 130
Hexachlorobutadiene	20.0	22.35		ug/L		112	70 - 138
Isopropylbenzene	20.0	20.64		ug/L		103	70 - 131
Methyl tert-butyl ether	20.0	20.22		ug/L		101	70 - 130
Methylene Chloride	20.0	19.44		ug/L		97	70 - 130
Naphthalene	20.0	20.54		ug/L		103	54 - 150
n-Butylbenzene	20.0	19.95		ug/L		100	68 - 137
N-Propylbenzene	20.0	20.75		ug/L		104	70 - 134
p-Isopropyltoluene	20.0	19.52		ug/L		98	66 - 130
sec-Butylbenzene	20.0	20.07		ug/L		100	70 - 135
Styrene	20.0	20.09		ug/L		100	70 - 130
tert-Butylbenzene	20.0	18.81		ug/L		94	70 - 130
Tetrachloroethene	20.0	20.87		ug/L		104	70 - 130
Toluene	20.0	21.44		ug/L		107	70 - 130
trans-1,2-Dichloroethene	20.0	21.23		ug/L		106	70 - 130
trans-1,3-Dichloropropene	20.0	19.99		ug/L		100	63 - 142
Trichloroethene	20.0	19.57		ug/L		98	70 - 130
Trichlorofluoromethane	20.0	22.73		ug/L		114	59 - 150
Vinyl chloride	20.0	21.39		ug/L		107	57 - 137
Xylenes, Total	40.0	41.33		ug/L		103	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: LCS 490-374385/3
Matrix: Water
Analysis Batch: 374385

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 490-374385/4
Matrix: Water
Analysis Batch: 374385

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
1,1,1,2-Tetrachloroethane			20.0	19.44		ug/L		97	70 - 130	1	13
1,1,1-Trichloroethane			20.0	20.12		ug/L		101	70 - 135	1	15
1,1,2,2-Tetrachloroethane			20.0	20.77		ug/L		104	69 - 131	5	15
1,1,2-Trichloroethane			20.0	21.22		ug/L		106	70 - 130	4	13
1,1-Dichloroethane			20.0	22.38		ug/L		112	70 - 130	1	17
1,1-Dichloroethene			20.0	21.43		ug/L		107	70 - 132	1	20
1,1-Dichloropropene			20.0	20.89		ug/L		104	70 - 130	1	16
1,2,3-Trichlorobenzene			20.0	22.44		ug/L		112	46 - 150	8	16
1,2,3-Trichloropropane			20.0	21.48		ug/L		107	70 - 131	10	14
1,2,4-Trichlorobenzene			20.0	21.68		ug/L		108	58 - 147	5	15
1,2,4-Trimethylbenzene			20.0	20.09		ug/L		100	70 - 130	3	13
1,2-Dibromo-3-Chloropropane			20.0	20.49		ug/L		102	45 - 138	6	19
1,2-Dibromoethane (EDB)			20.0	20.30		ug/L		102	70 - 130	2	13
1,2-Dichlorobenzene			20.0	20.60		ug/L		103	70 - 130	3	12
1,2-Dichloroethane			20.0	20.94		ug/L		105	70 - 130	1	13
1,2-Dichloropropane			20.0	21.43		ug/L		107	70 - 130	2	15
1,3,5-Trimethylbenzene			20.0	19.97		ug/L		100	70 - 130	1	14
1,3-Dichlorobenzene			20.0	19.89		ug/L		99	70 - 130	2	13
1,3-Dichloropropane			20.0	21.29		ug/L		106	70 - 130	6	12
1,4-Dichlorobenzene			20.0	20.03		ug/L		100	70 - 130	4	12
2,2-Dichloropropane			20.0	21.19		ug/L		106	60 - 143	2	20
2-Butanone (MEK)			100	112.3		ug/L		112	55 - 143	10	19
2-Chlorotoluene			20.0	19.92		ug/L		100	70 - 130	0	15
2-Hexanone			100	115.1		ug/L		115	54 - 142	10	17
4-Chlorotoluene			20.0	20.04		ug/L		100	70 - 130	0	15
4-Methyl-2-pentanone (MIBK)			100	117.8		ug/L		118	60 - 137	12	21
Acetone			100	121.5		ug/L		122	39 - 150	12	23
Benzene			20.0	20.44		ug/L		102	70 - 130	1	12
Bromobenzene			20.0	20.06		ug/L		100	70 - 130	2	16
Bromochloromethane			20.0	19.79		ug/L		99	70 - 130	1	16
Bromodichloromethane			20.0	19.17		ug/L		96	70 - 130	0	14
Bromoform			20.0	16.90		ug/L		84	70 - 137	2	14
Bromomethane			20.0	16.12		ug/L		81	53 - 150	1	19
Carbon disulfide			20.0	19.96		ug/L		100	64 - 135	1	16
Carbon tetrachloride			20.0	19.74		ug/L		99	70 - 147	3	16
Chlorobenzene			20.0	19.96		ug/L		100	70 - 130	1	12
Chlorodibromomethane			20.0	19.05		ug/L		95	70 - 133	0	13
Chloroethane			20.0	22.10		ug/L		110	60 - 138	1	15
Chloroform			20.0	20.03		ug/L		100	70 - 130	1	14
Chloromethane			20.0	20.49		ug/L		102	33 - 150	2	20

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

Lab Sample ID: LCSD 490-374385/4
Matrix: Water
Analysis Batch: 374385

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
cis-1,2-Dichloroethene			20.0	20.93		ug/L		105	70 - 130	0	15
cis-1,3-Dichloropropene			20.0	20.59		ug/L		103	70 - 133	1	15
Dibromomethane			20.0	21.22		ug/L		106	70 - 130	6	14
Dichlorodifluoromethane			20.0	22.81		ug/L		114	48 - 150	2	16
Ethylbenzene			20.0	21.12		ug/L		106	70 - 130	2	12
Hexachlorobutadiene			20.0	22.54		ug/L		113	70 - 138	1	16
Isopropylbenzene			20.0	20.50		ug/L		102	70 - 131	1	13
Methyl tert-butyl ether			20.0	21.53		ug/L		108	70 - 130	6	16
Methylene Chloride			20.0	19.82		ug/L		99	70 - 130	2	15
Naphthalene			20.0	22.81		ug/L		114	54 - 150	10	15
n-Butylbenzene			20.0	20.51		ug/L		103	68 - 137	3	14
N-Propylbenzene			20.0	20.80		ug/L		104	70 - 134	0	14
p-Isopropyltoluene			20.0	19.90		ug/L		99	66 - 130	2	13
sec-Butylbenzene			20.0	20.22		ug/L		101	70 - 135	1	14
Styrene			20.0	19.87		ug/L		99	70 - 130	1	12
tert-Butylbenzene			20.0	18.81		ug/L		94	70 - 130	0	14
Tetrachloroethene			20.0	20.46		ug/L		102	70 - 130	2	17
Toluene			20.0	21.06		ug/L		105	70 - 130	2	13
trans-1,2-Dichloroethene			20.0	20.86		ug/L		104	70 - 130	2	15
trans-1,3-Dichloropropene			20.0	20.12		ug/L		101	63 - 142	1	13
Trichloroethene			20.0	19.65		ug/L		98	70 - 130	0	14
Trichlorofluoromethane			20.0	23.29		ug/L		116	59 - 150	2	22
Vinyl chloride			20.0	21.65		ug/L		108	57 - 137	1	15
Xylenes, Total			40.0	40.62		ug/L		102	70 - 132	2	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: 490-112526-E-1 MS
Matrix: Water
Analysis Batch: 374385

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	F2	20.0	18.59		ug/L		93	70 - 131
1,1,1-Trichloroethane	ND	F2	20.0	20.74		ug/L		104	68 - 144
1,1,2,2-Tetrachloroethane	ND	F2	20.0	18.64		ug/L		93	56 - 145
1,1,2-Trichloroethane	ND	F1	20.0	33.96	F1	ug/L		170	70 - 130
1,1-Dichloroethane	ND	F1	20.0	23.22		ug/L		116	61 - 139
1,1-Dichloroethene	ND		20.0	22.61		ug/L		113	54 - 150
1,1-Dichloropropene	ND		20.0	21.36		ug/L		107	54 - 150
1,2,3-Trichlorobenzene	ND		20.0	20.65		ug/L		103	36 - 150
1,2,3-Trichloropropane	ND	F2	20.0	18.93		ug/L		95	65 - 131
1,2,4-Trichlorobenzene	ND		20.0	20.11		ug/L		101	47 - 147
1,2,4-Trimethylbenzene	ND		20.0	19.77		ug/L		99	64 - 136
1,2-Dibromo-3-Chloropropane	ND	F2	20.0	17.84		ug/L		89	38 - 138

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

Lab Sample ID: 490-112526-E-1 MS
Matrix: Water
Analysis Batch: 374385

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND	F2	20.0	17.85		ug/L		89	65 - 137
1,2-Dichlorobenzene	ND	F2	20.0	19.17		ug/L		96	70 - 130
1,2-Dichloroethane	ND		20.0	19.88		ug/L		99	64 - 136
1,2-Dichloropropane	ND	F1 F2	20.0	21.58		ug/L		108	67 - 130
1,3,5-Trimethylbenzene	ND	F2	20.0	19.48		ug/L		97	69 - 139
1,3-Dichlorobenzene	ND	F2	20.0	19.30		ug/L		97	68 - 131
1,3-Dichloropropane	ND	F2	20.0	18.59		ug/L		93	70 - 130
1,4-Dichlorobenzene	ND	F2	20.0	19.60		ug/L		98	70 - 130
2,2-Dichloropropane	ND	F2	20.0	21.79		ug/L		109	50 - 146
2-Butanone (MEK)	ND		100	87.30		ug/L		87	50 - 143
2-Chlorotoluene	ND		20.0	20.14		ug/L		101	67 - 138
2-Hexanone	ND	F2	100	107.0		ug/L		107	44 - 150
4-Chlorotoluene	ND	F2	20.0	19.76		ug/L		99	69 - 138
4-Methyl-2-pentanone (MIBK)	ND	F2	100	106.2		ug/L		106	50 - 140
Acetone	2.75	J F2	100	84.82		ug/L		82	39 - 150
Benzene	10.5		20.0	31.45		ug/L		105	55 - 147
Bromobenzene	ND	F2	20.0	19.34		ug/L		97	60 - 133
Bromochloromethane	ND	F2	20.0	18.50		ug/L		92	59 - 132
Bromodichloromethane	ND		20.0	18.23		ug/L		91	70 - 140
Bromoform	ND	F2	20.0	14.43		ug/L		72	53 - 150
Bromomethane	ND	F2	20.0	12.22		ug/L		61	30 - 150
Carbon disulfide	ND		20.0	20.90		ug/L		104	35 - 150
Carbon tetrachloride	ND	F2	20.0	20.82		ug/L		104	56 - 150
Chlorobenzene	ND	F2	20.0	19.78		ug/L		99	70 - 130
Chlorodibromomethane	ND	F2	20.0	17.19		ug/L		86	66 - 140
Chloroethane	ND		20.0	22.44		ug/L		112	58 - 141
Chloroform	ND		20.0	20.49		ug/L		102	66 - 138
Chloromethane	0.771	J	20.0	22.31		ug/L		108	10 - 150
cis-1,2-Dichloroethene	ND		20.0	21.58		ug/L		108	68 - 131
cis-1,3-Dichloropropene	ND	F2	20.0	19.36		ug/L		97	70 - 133
Dibromomethane	ND	F2	20.0	18.25		ug/L		91	70 - 130
Dichlorodifluoromethane	ND		20.0	20.78		ug/L		104	10 - 150
Ethylbenzene	ND	F2	20.0	21.69		ug/L		108	65 - 139
Hexachlorobutadiene	ND	F2	20.0	19.28		ug/L		96	61 - 141
Isopropylbenzene	1.11	F2	20.0	22.05		ug/L		105	70 - 137
Methyl tert-butyl ether	3.62		20.0	22.12		ug/L		93	55 - 141
Methylene Chloride	ND		20.0	18.72		ug/L		94	64 - 130
Naphthalene	ND		20.0	21.32		ug/L		107	32 - 150
n-Butylbenzene	ND	F2	20.0	19.90		ug/L		100	61 - 141
N-Propylbenzene	0.804	J	20.0	22.45		ug/L		108	53 - 150
p-Isopropyltoluene	ND	F2	20.0	19.64		ug/L		98	66 - 137
sec-Butylbenzene	ND		20.0	20.28		ug/L		101	55 - 136
Styrene	ND	F2	20.0	20.30		ug/L		102	70 - 130
tert-Butylbenzene	ND	F2	20.0	19.65		ug/L		98	70 - 138
Tetrachloroethene	ND	F2	20.0	21.49		ug/L		107	57 - 138
Toluene	2.63	F2	20.0	24.15		ug/L		108	64 - 136
trans-1,2-Dichloroethene	ND		20.0	22.12		ug/L		111	59 - 143
trans-1,3-Dichloropropene	ND	F2	20.0	18.11		ug/L		91	63 - 142

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

Lab Sample ID: 490-112526-E-1 MS
Matrix: Water
Analysis Batch: 374385

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	ND	F2	20.0	20.04		ug/L		100	63 - 135
Trichlorofluoromethane	ND		20.0	23.97		ug/L		120	44 - 150
Vinyl chloride	ND		20.0	22.11		ug/L		111	57 - 150
Xylenes, Total	0.676	J F2	40.0	41.51		ug/L		102	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: 490-112526-F-1 MSD
Matrix: Water
Analysis Batch: 374385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	F2	20.0	23.26	F2	ug/L		116	70 - 131	22	16
1,1,1-Trichloroethane	ND	F2	20.0	25.59	F2	ug/L		128	68 - 144	21	17
1,1,2,2-Tetrachloroethane	ND	F2	20.0	23.79	F2	ug/L		119	56 - 145	24	19
1,1,2-Trichloroethane	ND	F1	20.0	38.30	F1	ug/L		191	70 - 130	12	18
1,1-Dichloroethane	ND	F1	20.0	28.41	F1	ug/L		142	61 - 139	20	23
1,1-Dichloroethene	ND		20.0	27.53		ug/L		138	54 - 150	20	24
1,1-Dichloropropene	ND		20.0	26.46		ug/L		132	54 - 150	21	24
1,2,3-Trichlorobenzene	ND		20.0	26.64		ug/L		133	36 - 150	25	43
1,2,3-Trichloropropane	ND	F2	20.0	23.42	F2	ug/L		117	65 - 131	21	19
1,2,4-Trichlorobenzene	ND		20.0	25.53		ug/L		128	47 - 147	24	24
1,2,4-Trimethylbenzene	ND		20.0	23.52		ug/L		118	64 - 136	17	18
1,2-Dibromo-3-Chloropropane	ND	F2	20.0	23.90	F2	ug/L		119	38 - 138	29	26
1,2-Dibromoethane (EDB)	ND	F2	20.0	22.68	F2	ug/L		113	65 - 137	24	21
1,2-Dichlorobenzene	ND	F2	20.0	23.93	F2	ug/L		120	70 - 130	22	15
1,2-Dichloroethane	ND		20.0	24.65		ug/L		123	64 - 136	21	22
1,2-Dichloropropane	ND	F1 F2	20.0	27.23	F1 F2	ug/L		136	67 - 130	23	19
1,3,5-Trimethylbenzene	ND	F2	20.0	23.68	F2	ug/L		118	69 - 139	19	17
1,3-Dichlorobenzene	ND	F2	20.0	23.41	F2	ug/L		117	68 - 131	19	14
1,3-Dichloropropane	ND	F2	20.0	24.28	F2	ug/L		121	70 - 130	27	17
1,4-Dichlorobenzene	ND	F2	20.0	23.10	F2	ug/L		116	70 - 130	16	14
2,2-Dichloropropane	ND	F2	20.0	26.91	F2	ug/L		135	50 - 146	21	20
2-Butanone (MEK)	ND		100	110.4		ug/L		110	50 - 143	23	28
2-Chlorotoluene	ND		20.0	23.72		ug/L		119	67 - 138	16	17
2-Hexanone	ND	F2	100	139.7	F2	ug/L		140	44 - 150	26	21
4-Chlorotoluene	ND	F2	20.0	23.11	F2	ug/L		116	69 - 138	16	15
4-Methyl-2-pentanone (MIBK)	ND	F2	100	138.5	F2	ug/L		139	50 - 140	26	24
Acetone	2.75	J F2	100	115.8	F2	ug/L		113	39 - 150	31	28
Benzene	10.5		20.0	36.70		ug/L		131	55 - 147	15	22
Bromobenzene	ND	F2	20.0	23.56	F2	ug/L		118	60 - 133	20	18
Bromochloromethane	ND	F2	20.0	23.03	F2	ug/L		115	59 - 132	22	21
Bromodichloromethane	ND		20.0	22.34		ug/L		112	70 - 140	20	196
Bromoform	ND	F2	20.0	18.69	F2	ug/L		93	53 - 150	26	20

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

Lab Sample ID: 490-112526-F-1 MSD
Matrix: Water
Analysis Batch: 374385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND	F2	20.0	19.88	F2	ug/L		99	30 - 150	48	44
Carbon disulfide	ND		20.0	25.57		ug/L		128	35 - 150	20	34
Carbon tetrachloride	ND	F2	20.0	25.61	F2	ug/L		128	56 - 150	21	18
Chlorobenzene	ND	F2	20.0	24.37	F2	ug/L		122	70 - 130	21	15
Chlorodibromomethane	ND	F2	20.0	21.86	F2	ug/L		109	66 - 140	24	19
Chloroethane	ND		20.0	27.37		ug/L		137	58 - 141	20	31
Chloroform	ND		20.0	25.03		ug/L		125	66 - 138	20	21
Chloromethane	0.771	J	20.0	26.94		ug/L		131	10 - 150	19	43
cis-1,2-Dichloroethene	ND		20.0	26.11		ug/L		131	68 - 131	19	21
cis-1,3-Dichloropropene	ND	F2	20.0	24.08	F2	ug/L		120	70 - 133	22	19
Dibromomethane	ND	F2	20.0	23.32	F2	ug/L		117	70 - 130	24	19
Dichlorodifluoromethane	ND		20.0	25.69		ug/L		128	10 - 150	21	50
Ethylbenzene	ND	F2	20.0	26.46	F2	ug/L		132	65 - 139	20	18
Hexachlorobutadiene	ND	F2	20.0	26.24	F2	ug/L		131	61 - 141	31	26
Isopropylbenzene	1.11	F2	20.0	26.73	F2	ug/L		128	70 - 137	19	17
Methyl tert-butyl ether	3.62		20.0	27.15		ug/L		118	55 - 141	20	24
Methylene Chloride	ND		20.0	23.24		ug/L		116	64 - 130	22	22
Naphthalene	ND		20.0	27.70		ug/L		138	32 - 150	26	40
n-Butylbenzene	ND	F2	20.0	24.52	F2	ug/L		123	61 - 141	21	17
N-Propylbenzene	0.804	J	20.0	26.29		ug/L		127	53 - 150	16	18
p-Isopropyltoluene	ND	F2	20.0	23.87	F2	ug/L		119	66 - 137	19	16
sec-Butylbenzene	ND		20.0	24.42		ug/L		122	55 - 136	19	50
Styrene	ND	F2	20.0	24.70	F2	ug/L		123	70 - 130	20	16
tert-Butylbenzene	ND	F2	20.0	23.90	F2	ug/L		120	70 - 138	20	17
Tetrachloroethene	ND	F2	20.0	25.86	F2	ug/L		129	57 - 138	18	17
Toluene	2.63	F2	20.0	29.38	F2	ug/L		134	64 - 136	20	18
trans-1,2-Dichloroethene	ND		20.0	27.27		ug/L		136	59 - 143	21	25
trans-1,3-Dichloropropene	ND	F2	20.0	23.13	F2	ug/L		116	63 - 142	24	18
Trichloroethene	ND	F2	20.0	24.75	F2	ug/L		124	63 - 135	21	17
Trichlorofluoromethane	ND		20.0	29.48		ug/L		147	44 - 150	21	32
Vinyl chloride	ND		20.0	26.71		ug/L		134	57 - 150	19	37
Xylenes, Total	0.676	J F2	40.0	51.03	F2	ug/L		126	69 - 132	21	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-373096/1-A
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200	0.000100	mg/L		09/26/16 10:07	09/29/16 23:14	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 490-373096/2-A
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.1000		mg/L		100	80 - 120

Lab Sample ID: 490-112519-B-4-A MS
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 373096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.0115	J	0.100	0.1202		mg/L		109	75 - 125

Lab Sample ID: 490-112519-B-4-B MSD
Matrix: Water
Analysis Batch: 374458

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 373096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.0115	J	0.100	0.1266		mg/L		115	75 - 125	5	20

GC/MS VOA

Analysis Batch: 374385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112473-1	MW-19	Total/NA	Water	8260B	
490-112473-2	CD-01	Total/NA	Water	8260B	
490-112473-4	MW-30 SBR	Total/NA	Water	8260B	
490-112473-5	MW-2	Total/NA	Water	8260B	
490-112473-6	MW-24 SBR	Total/NA	Water	8260B	
490-112473-7	MW-29 SBR	Total/NA	Water	8260B	
490-112473-8	MW-3	Total/NA	Water	8260B	
490-112473-9	MW-36	Total/NA	Water	8260B	
490-112473-10	MW-17	Total/NA	Water	8260B	
490-112473-11	Trip Blank	Total/NA	Water	8260B	
MB 490-374385/7	Method Blank	Total/NA	Water	8260B	
LCS 490-374385/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-374385/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-112526-E-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-112526-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 373096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112473-1	MW-19	Total/NA	Water	3010A	
490-112473-2	CD-01	Total/NA	Water	3010A	
490-112473-3	MW-20	Total/NA	Water	3010A	
MB 490-373096/1-A	Method Blank	Total/NA	Water	3010A	
LCS 490-373096/2-A	Lab Control Sample	Total/NA	Water	3010A	
490-112519-B-4-A MS	Matrix Spike	Total/NA	Water	3010A	
490-112519-B-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 374458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112473-1	MW-19	Total/NA	Water	6020A	373096
490-112473-2	CD-01	Total/NA	Water	6020A	373096
490-112473-3	MW-20	Total/NA	Water	6020A	373096
MB 490-373096/1-A	Method Blank	Total/NA	Water	6020A	373096
LCS 490-373096/2-A	Lab Control Sample	Total/NA	Water	6020A	373096
490-112519-B-4-A MS	Matrix Spike	Total/NA	Water	6020A	373096
490-112519-B-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	373096

Lab Chronicle

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-19
Date Collected: 09/20/16 14:55
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 16:36	RP	TAL NSH
Total/NA	Prep	3010A			373096	09/26/16 10:07	CAH	TAL NSH
Total/NA	Analysis	6020A		1	374458	09/30/16 01:25	KKK	TAL NSH

Client Sample ID: CD-01
Date Collected: 09/20/16 15:54
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 17:06	RP	TAL NSH
Total/NA	Prep	3010A			373096	09/26/16 10:07	CAH	TAL NSH
Total/NA	Analysis	6020A		1	374458	09/30/16 01:31	KKK	TAL NSH

Client Sample ID: MW-20
Date Collected: 09/21/16 10:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			373096	09/26/16 10:07	CAH	TAL NSH
Total/NA	Analysis	6020A		1	374458	09/30/16 01:36	KKK	TAL NSH

Client Sample ID: MW-30 SBR
Date Collected: 09/21/16 11:52
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 17:36	RP	TAL NSH

Client Sample ID: MW-2
Date Collected: 09/21/16 12:00
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 18:06	RP	TAL NSH

Client Sample ID: MW-24 SBR
Date Collected: 09/21/16 13:37
Date Received: 09/23/16 09:25

Lab Sample ID: 490-112473-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 18:36	RP	TAL NSH

Lab Chronicle

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Client Sample ID: MW-29 SBR
Lab Sample ID: 490-112473-7
Date Collected: 09/21/16 14:52
Matrix: Water
Date Received: 09/23/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 19:05	RP	TAL NSH

Client Sample ID: MW-3
Lab Sample ID: 490-112473-8
Date Collected: 09/21/16 16:53
Matrix: Water
Date Received: 09/23/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 19:35	RP	TAL NSH

Client Sample ID: MW-36
Lab Sample ID: 490-112473-9
Date Collected: 09/21/16 17:17
Matrix: Water
Date Received: 09/23/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 20:05	RP	TAL NSH

Client Sample ID: MW-17
Lab Sample ID: 490-112473-10
Date Collected: 09/21/16 17:47
Matrix: Water
Date Received: 09/23/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 20:35	RP	TAL NSH

Client Sample ID: Trip Blank
Lab Sample ID: 490-112473-11
Date Collected: 09/21/16 00:01
Matrix: Water
Date Received: 09/23/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374385	09/30/16 13:37	RP	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87358	06-30-17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-112473 Chain of Custody

Cooler Received/Opened On 9/23/2016 @ 0925

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 0560 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 14740456 pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 1.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

   If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) HG

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

   Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) HG

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

   b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) HG

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) HG

I certify that I attached a label with the unique LIMS number to each container (intial) HG

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

Loc: 490
112473

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/3/2016

Client Information	Sampler: Ron Hilliard	Lab PM: Baker, Heather	COC No: 490-57664-18614.1
Client Contact: Mr. Ron Hilliard	Phone: 678-808-8979	E-Mail: heather.baker@testamericainc.com	Page: Page 1 of 3
Company: URS Corporation			Job #:
Address: 400 Northpark Town Center 1000 Abernathy Road N.E., Suite 90	Due Date Requested:		
City: Atlanta	TAT Requested (days):		
State, Zip: GA, 30328			
Phone:	PO #: Craig.Bernhoft@urs.com		
Email: ron.hilliard@aecom.com	WO #: 20500332.00001 / V#1427536		
Project Name: C&D Technologies	Project #: 49001189		
Site: 1835 Mountain Industrial, Conyers GA	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List	6020A - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	D		
1	MW-19	9/20/16	14:55	G	Water			X	X	4	
2	CD-01	9/20/16	15:54	G	Water			X	X	4	
3	MW-20	9/21/16	10:00	G	Water				X	1	
4	MW-30 SBR	9/21/16	11:52	G	Water			X		3	
5	MW-2	9/21/16	12:00	G	Water			X		3	
6	MW-24 SBR	9/21/16	13:37	G	Water			X		3	
7	MW-29 SBR	9/21/16	14:52	G	Water			X		3	
8	MW-3	9/21/16	16:53	G	Water			X		3	
9	MW-36	9/21/16	17:17	G	Water			X		3	
10	MW-17	9/21/16	17:47	G	Water			X		3	
11	Trip Blank	—	—	—	Water			X		2	

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/22/16 0840	AECOM	[signature]	9/22/16 08:40	TAN
2	[signature] 9/22/16	10:10	AECOM	[signature] I.S	9/23/16 0925	TAN
3						

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

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 490-112473-1

Login Number: 112473
List Number: 1
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville

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	
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	

Default Detection Limits

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

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

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	1.00	0.150	ug/L	8260B
1,1,1-Trichloroethane	1.00	0.190	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.00	0.190	ug/L	8260B
1,1,2-Trichloroethane	1.00	0.190	ug/L	8260B
1,1-Dichloroethane	1.00	0.240	ug/L	8260B
1,1-Dichloroethene	1.00	0.250	ug/L	8260B
1,1-Dichloropropene	1.00	0.200	ug/L	8260B
1,2,3-Trichlorobenzene	1.00	0.230	ug/L	8260B
1,2,3-Trichloropropane	1.00	0.230	ug/L	8260B
1,2,4-Trichlorobenzene	1.00	0.200	ug/L	8260B
1,2,4-Trimethylbenzene	1.00	0.170	ug/L	8260B
1,2-Dibromo-3-Chloropropane	10.0	0.940	ug/L	8260B
1,2-Dibromoethane (EDB)	1.00	0.210	ug/L	8260B
1,2-Dichlorobenzene	1.00	0.190	ug/L	8260B
1,2-Dichloroethane	1.00	0.200	ug/L	8260B
1,2-Dichloropropane	1.00	0.250	ug/L	8260B
1,3,5-Trimethylbenzene	1.00	0.170	ug/L	8260B
1,3-Dichlorobenzene	1.00	0.180	ug/L	8260B
1,3-Dichloropropane	1.00	0.190	ug/L	8260B
1,4-Dichlorobenzene	1.00	0.170	ug/L	8260B
2,2-Dichloropropane	1.00	0.160	ug/L	8260B
2-Butanone (MEK)	50.0	2.64	ug/L	8260B
2-Chlorotoluene	1.00	0.180	ug/L	8260B
2-Hexanone	10.0	1.28	ug/L	8260B
4-Chlorotoluene	1.00	0.170	ug/L	8260B
4-Methyl-2-pentanone (MIBK)	10.0	0.810	ug/L	8260B
Acetone	25.0	2.66	ug/L	8260B
Benzene	1.00	0.200	ug/L	8260B
Bromobenzene	1.00	0.210	ug/L	8260B
Bromochloromethane	1.00	0.150	ug/L	8260B
Bromodichloromethane	1.00	0.170	ug/L	8260B
Bromoform	1.00	0.290	ug/L	8260B
Bromomethane	1.00	0.350	ug/L	8260B
Carbon disulfide	1.00	0.220	ug/L	8260B
Carbon tetrachloride	1.00	0.180	ug/L	8260B
Chlorobenzene	1.00	0.180	ug/L	8260B
Chlorodibromomethane	1.00	0.250	ug/L	8260B
Chloroethane	1.00	0.360	ug/L	8260B
Chloroform	1.00	0.230	ug/L	8260B
Chloromethane	1.00	0.360	ug/L	8260B
cis-1,2-Dichloroethene	1.00	0.210	ug/L	8260B
cis-1,3-Dichloropropene	1.00	0.170	ug/L	8260B
Dibromomethane	1.00	0.450	ug/L	8260B
Dichlorodifluoromethane	1.00	0.170	ug/L	8260B
Ethylbenzene	1.00	0.190	ug/L	8260B
Hexachlorobutadiene	2.00	0.380	ug/L	8260B
Isopropylbenzene	1.00	0.330	ug/L	8260B
Methyl tert-butyl ether	1.00	0.170	ug/L	8260B
Methylene Chloride	5.00	1.00	ug/L	8260B
Naphthalene	5.00	0.210	ug/L	8260B
n-Butylbenzene	1.00	0.240	ug/L	8260B
N-Propylbenzene	1.00	0.170	ug/L	8260B

Default Detection Limits

Client: URS Corporation
Project/Site: C&D Technologies

TestAmerica Job ID: 490-112473-1

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

Analyte	RL	MDL	Units	Method
p-Isopropyltoluene	1.00	0.170	ug/L	8260B
sec-Butylbenzene	1.00	0.170	ug/L	8260B
Styrene	1.00	0.280	ug/L	8260B
tert-Butylbenzene	1.00	0.170	ug/L	8260B
Tetrachloroethene	1.00	0.140	ug/L	8260B
Toluene	1.00	0.170	ug/L	8260B
trans-1,2-Dichloroethene	1.00	0.230	ug/L	8260B
trans-1,3-Dichloropropene	1.00	0.170	ug/L	8260B
Trichloroethene	1.00	0.200	ug/L	8260B
Trichlorofluoromethane	1.00	0.210	ug/L	8260B
Vinyl chloride	1.00	0.180	ug/L	8260B
Xylenes, Total	3.00	0.580	ug/L	8260B

Method: 6020A - Metals (ICP/MS)

Prep: 3010A

Analyte	RL	MDL	Units	Method
Lead	0.00200	0.000100	mg/L	6020A

Appendix C

Data Review and Validation Report

Project: C&D Site in Conyers, Georgia Groundwater Analysis
Project Number: 60398770
Sample Types: Groundwater
Sample Collection Dates: 9/20/16 through 9/22/16
Laboratory: Test America Nashville
Laboratory Sample Groups Included in this Report: J112439-1 and J112473-1
Analyses: Volatiles by Method 8260B and metals by Method 6020A
Date Review Finalized: 1/06/17
Guidance: National Functional Guidelines, modified for non-CLP analyses

Data Reviewer: Peter Ciarleglio

General Overview of the Data Review and Validation Report

This project consisted of the taking groundwater samples from established monitoring wells at the C&D site located in Conyers, GA, and analyzing all samples for volatile organics and some samples for lead. Sample Group J112439-1 consisted of 7 water samples (including one field duplicate); Sample Group J9112473-1 consisted of ten water samples, plus one trip blank. All samples were analyzed for volatile organics by Method 8260B, some samples were also analyzed for selected metals (lead) by Method 6020A. The laboratory data package contained summary QC only; the case narrative referenced the summary QC without specifically citing individual analytical problems. The following parameters could be reviewed based on the laboratory data package:

- Sample preservation and holding times
- Blank contamination
- Surrogate recoveries
- Laboratory control spikes (LCS)
- Matrix and matrix spike duplicates spike (MS/MSD)
- Laboratory duplicate samples
- Field duplicate review
- Other problems noted in the laboratory qualifiers to the results

List of Possible Validation Qualifiers

U - The analyte should be considered not detected at the reported value for the reasons explained in this document. This is distinct from the laboratory U or ND qualifiers, which mean that the analyte was simply not detected in the analysis.

J - For the GC/MS data, the identification of the analyte is acceptable, but quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision, i.e., the quantitative value is considered estimated. For non-MS data, both the presence and quantitation of the compound are uncertain. Data that has been validation qualified "J" often may not be useable for compliance monitoring, but may be adequate for site investigations.

N - There is presumptive evidence that the analyte is present, but it has not been confirmed. The analyte is "tentatively identified". There is an indication that the reported analyte is present, however, all quality control requirements necessary for confirmation were not met.

R - Data is considered to be rejected and shall not be used. This flag denotes a major failure of quality control criteria. Either alternative available data should be used, or else resampling and analysis are necessary to confirm or deny the presence of the analyte.

C - This flag is most often used in conjunction with pesticides/PCB data. The analyte is determined to be present and the presence has been confirmed by GC/MS.

UJ - This is a combination of the U and J flags. The analyte is not considered to be present. The reported value is considered to be an estimated limit of detection.

E- This data review qualifier is used in instances where the analysis of a compound at the greatest dilution used by the laboratory still exceeded the calibration range of the instrument. This result should be considered an estimate, and it is likely that the actual result is higher than the reported result.

JN - A combination of the J and N flags. The analyte is tentatively identified and the value preceding the JN is estimated.

DUP- This qualifier would be applied to the original sample and the corresponding field duplicate sample results detected above the laboratory quantitation limit that had a relative percent difference (RPD) that exceeded the project criteria (for this project: 30% RPD for groundwater samples).

Overall Data Assessment

The analyses had appropriate batch precision and accuracy QC, such as LCS, MS/MSD, sample spikes, and laboratory duplicates as appropriate for the methods. The laboratory reported results for certain compounds on some samples with an "E" indicating the result was higher than the laboratory calibration range. Such results are often inaccurate. These samples were re-analyzed at a greater dilution, so as to bring results within the calibration range for at least one of the diluted analyses. For the final reports, the laboratory did not report the "E" qualified results, only the more correct diluted results, so no further qualification was necessary.

Completeness

The samples and analyses requested on the chains-of-custody (COCs) were performed by the laboratory, according to the prescribed analytical method. The planned categories of the analyses were volatile organics by Method 8260B, and the analysis of selected samples for the metal lead only, by method 6020A. The samples were successfully analyzed for all analytes, for a completeness of 100%. None of the analytical data required additional qualification based on the summary QC provided by the laboratory.

Unusual Sample Results Discussion

The site is a former lead battery manufacturing facility that is known to be contaminated in certain areas with lead and chlorinated solvents. There were no unusual sample results observed from this site for this sampling episode.

Achieving Required Detection and Reporting Limits

For this project, lead was analyzed using the low level ICPMS Method 6020A. All samples with detections above the MDL but below the reporting limit were reported, and qualified by the laboratory with a "J" (estimated) qualifier. For all samples that were either non-detected or contained only low concentrations of lead, the reporting limit was 0.002 mg/L, and the MDL was 0.0002 mg/L. These are both below any relevant screening level for lead contamination. For volatile organics by Method 8260B, the lab achieved reporting limits of 1 ug/L and MDL levels of much less than 1 ug/L for all chlorinated solvents that have previously been detected at the site, except in samples already heavily contaminated with volatile organic compounds. Samples that required dilution due to the sample matrix and high concentration of volatile compound were listed in the case narrative.

Accuracy

Accuracy was addressed through the percent recovery in laboratory control and laboratory control duplicate samples (LCS and LCSD), and also through MS/MSD recoveries in project sample matrices. One project sample was analyzed as an MS/MSD for volatiles, which met the requirements of the sampling plan. No project sample was selected for MS/MSD analysis for lead; samples from other clients were analyzed for each QC batch. All LCS and MS/MSD samples met the QC recovery limits for accuracy.

Precision

Laboratory precision was addressed through Relative Percent Difference (RPD) calculated from detected results of the LCS/LCSD, and through MS/MSD samples. The number of these samples exceeded the requirements of the sampling plan. All LCS and MS/MSD samples met the QC RPD limits for precision, except as noted in this report. No data was invalidated because of these QC issues.

Field Duplicates

There was one field duplicates collected for this sampling event. These met the requirements of the sampling plan for field duplicate sampling. For all field duplicate samples with results detected above the reporting limit, the Relative Percent Difference (RPD) was calculated. The field duplicate RPD QC limit was set at 30% difference. All field duplicate samples with results detected above the reporting limit met the field duplicate criteria.

Section 1: Data Review on Samples:

List of Samples

Lab Sample Identification #	Field Sample Identification #
490-112439-1	MW-37
490-112439-2	MW-38 SBR
490-112439-3	MW-8 SBR
490-112439-4	OBS-8
490-112439-5	MW-5D
490-112439-6	MW-5D DUP
490-112439-7	MW-5
490-112473-1	MW-19
490-112473-2	CD-01
490-112473-4	MW-30 SBR
490-112473-5	MW-2
490-112473-6	MW-24 SBR
490-112473-7	MW-29 SBR
490-112473-8	MW-3
490-112473-9	MW-36
490-112473-10	MW-17
490-112473-11	Trip Blank

1.0 Data Package Completeness

Were all items delivered as specified in the COC?

Yes.

2.0 Laboratory Case Narrative \ Sample Receipt Form

Were problems noted in the laboratory case narratives or sample receipt form?

Yes.

Receipt

The samples were received on 3/3/2016 9:33 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 2.6º C.

Volatile Organics Method 8260B (plus associated sample preparations)

Method 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for analytical batch 490-375165 recovered outside control limits for the following analyte: Dichlorodifluoromethane. (Reviewer note: none of the affected samples were detected for this compound.)

Method 8260B: The method blank for analytical batch 490-375165 contained Hexachlorobutadiene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B: The method blank for analytical batch 490-375165 contained 1,2,3-Trichlorobenzene and Naphthalene above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. (Reviewer note: These blank detections were evaluated to determine if the affected samples required qualification.)

Method 8260B: The method blank for analytical batch 490-375013 contained 1,2,3-Trichlorobenzene, Hexachlorobutadiene and Naphthalene above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. (Reviewer note: These blank detections were evaluated to determine if the affected samples required qualification.)

Method 8260B: The following samples were diluted due to the nature of the sample matrix: MW-38 SBR (490-112439-2), MW-8 SBR (490-112439-3), MW-5D (490-112439-5), MW-5D DUP (490-112439-6) and MW-5 (490-112439-7). Elevated reporting limits (RLs) are provided.

There were no other issues noted in the case narratives.

Metals Method 6020A (plus associated sample preparations)

There were no issues noted in the case narratives.

3.0 Holding Times

Were samples extracted/analyzed within QAPP or method holding time limits?

Yes.

Field ID	Parameter	Analyte	Result, mg/L	Qualification
NA				

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes. Hexachlorobutadiene was detected above the reporting limit in the method blank, but no affected sample had any detection for this compound. Several compounds were detected in the Method blanks at concentrations below the reporting limit. However, since the laboratory was reporting the project results down to the MDL, any detected sample results that were affected

should have been qualified "B". Any affected samples <5X the reported value in the method blank was review qualified "UJ", meaning the samples should be considered ND for the analyte at the reported J qualified value. For the affected samples, only acetone results were impacted.

Blank ID	Para-meter	Analyte	Concentration	Units
375013	vol	Hexachlorobutadiene	1.845 J	ug/L
375013	vol	1,2,3-Trichlorobenzene	0.6166 J	ug/L
375013	vol	Naphthalene	0.2589 J	ug/L
375165	vol	Hexachlorobutadiene	2.084	ug/L
375165	vol	1,2,3-Trichlorobenzene	0.7564 J	ug/L
375165	vol	Naphthalene	0.3528 J	ug/L

Affected Results: None. All sample results were either ND or were sufficiently higher than the blank contamination (for naphthalene) so as to not require qualification.

Field ID	Para-meter	Analyte	New RL	Units	Qualification
NA					

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes.

LCS ID	Para-meter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
NA					

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Result ug/L	Qualification
NA				

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes.

Field ID	Para-meter	Surrogate	Recovery %	Criteria
NA				

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which was associated with quality control samples or which were reported as non-detected and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Also, any samples where only one surrogate recovery was outside the limits (per fraction) would not be qualified provided the surrogate recovery was greater than 10%.

Field ID	Parameter	Analyte	Qualification
NA			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, there was one sample, MW-8 SBR, analyzed as an MS/MSD for volatiles; no project sample was selected for MS/MSD for lead.

Were MS/MSD recoveries within evaluation criteria?

Yes.

MS/MSD ID	Para-meter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria (MPCA Limits Applied)
NA					

Analytical data that required qualification based on MS/MSD data are included in the table below. Samples that had high recovery in the MS/MSD, but were ND for the analyte in the parent sample did not receive a qualifier.

Field ID	Parameter	Analyte	Result org:(ug/l) met:(mg/l)	Qualification
NA				

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No. Laboratory Precision was determined by LCSD and MS/MSD QC samples.

Were laboratory duplicate sample RPDs within criteria?

NA

Field ID	Parameter	Analyte	RPD	Criteria
NA				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Results %	Qualification
NA				

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes. One field duplicate was collected as follows:

Field ID	Field Duplicate ID
MW-5D	MW-5D DUP

Were field duplicates for this SDG within evaluation criteria?

Yes. A 30% RPD QC Limit was used as the maximum acceptable RPD value for field duplicates. This limit was only applied to samples detected above the laboratory reporting limit.

Field ID	Field Duplicate ID	Analyte	Results	RPD	Qualification
NA					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Yes.

The following table identifies the analyses which were reported as not detected when diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
NA		

11.0 Additional Qualifications

Were additional qualifications applied?

No.

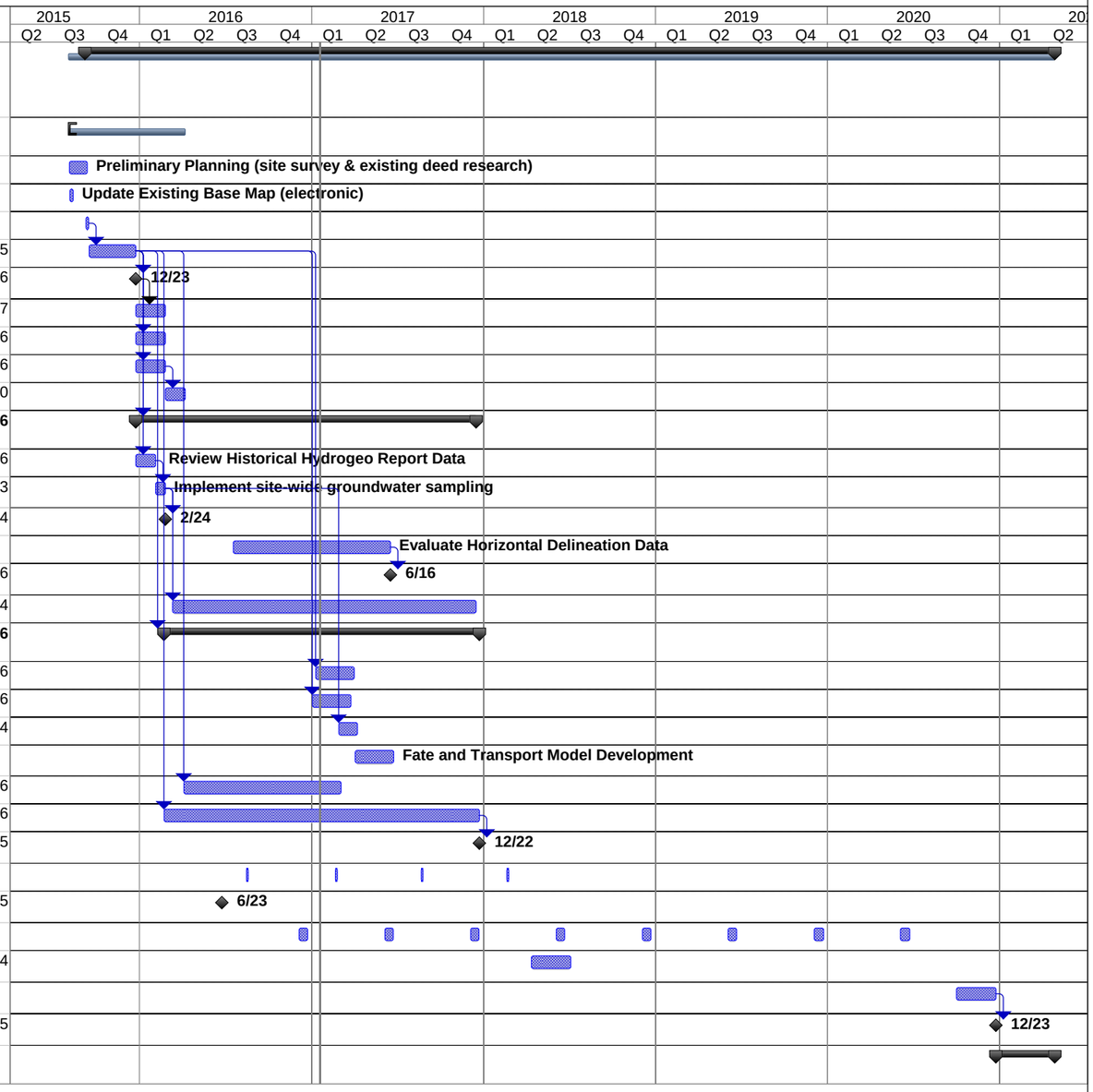
Field ID	Parameter	Analyte	Result ug/M^3	Validation Qualification	Correct Result ug/M^3
NA					

Appendix D

Gantt Chart

C & DTechnologies
Conyers VRP Program Activities

ID	Task Name	Duration	Start	Finish	Predecessors
1	**Implementing Voluntary Investigation and Remediation Plan**	**1472 days**	**Mon 9/7/15**	**Tue 4/27/21**	
2	**Voluntary Remediation Program Application**		**Mon 8/3/15**		
3	Preliminary Planning (site survey & existing deed research)	28 days	Wed 8/5/15	Fri 9/11/15	
4	Update Existing Base Map (electronic)	5 days	Thu 8/6/15	Wed 8/12/15	
5	Submitted VRP application	4 days	Wed 9/9/15	Mon 9/14/15	
6	Receive GAEPD approval	71 days	Wed 9/16/15	Wed 12/23/15	5
7	**VRP Application Approval - Milestone**	0 days	Wed 12/23/15	Wed 12/23/15	6
8	Address GAEPD Comments	45 days	Thu 12/24/15	Wed 2/24/16	7
9	Update Tax Maps and Warranty Deed Information	45 days	Thu 12/24/15	Wed 2/24/16	6
10	File Affidavit with clerk of court	45 days	Thu 12/24/15	Wed 2/24/16	6
11	Send copy of Affidavit recording receipt to GAEPD	30 days	Thu 2/25/16	Wed 4/6/16	10
12	**Compliance with applicable Risk Reduction Standards**	**517 days**	**Thu 12/24/15**	**Fri 12/15/17**	**6**
13	Review Historical Hydrogeo Report Data	30 days	Thu 12/24/15	Wed 2/3/16	6
14	Implement site-wide groundwater sampling	15 days	Thu 2/4/16	Wed 2/24/16	13
15	First Semi-Annual Groundwater sampling event	0 days	Wed 2/24/16	Wed 2/24/16	14
16	Evaluate Horizontal Delineation Data	12 mons	Mon 7/18/16	Fri 6/16/17	
17	**Horizontal Groundwater Delineation Update - Milestone**	0 days	Fri 6/16/17	Fri 6/16/17	16
18	Initial Biochlor Groundwater Model	461 days	Fri 3/11/16	Fri 12/15/17	14
19	**Potential Human Health Ecological Receptor Evaluation**	**480 days**	**Mon 2/22/16**	**Fri 12/22/17**	**6**
20	Update Water Well Survey	60 days	Mon 1/9/17	Fri 3/31/17	6
21	Potential receptor survey	60 days	Mon 1/2/17	Fri 3/24/17	6
22	Vapor Intrusion Pathway Evaluation	30 days	Mon 2/27/17	Fri 4/7/17	14
23	Fate and Transport Model Development	60 days	Mon 4/3/17	Fri 6/23/17	
24	Gain Access Offsite (Pittman) for additional groundwater data	12 mons	Mon 4/4/16	Fri 3/3/17	6
25	Additional Groundwater Horizontal delineation	24 mons	Mon 2/22/16	Fri 12/22/17	6
26	**Delineation of Release on property without Access -Milestone**	0 days	Fri 12/22/17	Fri 12/22/17	25
27	**Semi-Annual Groundwater Sampling Events First Two Years**	**600 days**	**Thu 12/24/15**	**Wed 4/11/18**	
36	**Submit First SemiAnnual Progress Report- Milestone**	0 days	Thu 6/23/16	Thu 6/23/16	35
37	**Semi-Annual Progress Reports**	**927 days**	**Mon 12/5/16**	**Tue 6/23/20**	
54	**Recalculate Risk Reduction Standards (RRS)**	60 days	Thu 4/12/18	Wed 7/4/18	34
55	**Compliance Status Report (CSR)**	60 days	Thu 10/1/20	Wed 12/23/20	
56	**Submit CSR and Certify Compliance with RRS - Milestone**	0 days	Wed 12/23/20	Wed 12/23/20	55
57	**Uniform Environmental Covenant (UEC)**	**89 days**	**Thu 12/24/20**	**Tue 4/27/21**	



Appendix E

Additional Qualifying Properties

ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)

PROPERTY INFORMATION			
TAX PARCEL ID	0220010022A	PROPERTY SIZE (ACRES)	6.6
PROPERTY ADDRESS	1875 NW Industrial Blvd.		
CITY	Conyers	COUNTY	Rockdale
STATE	GA	ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Robert Patillo Properties, Inc.	PHONE #	
MAILING ADDRESS	2200 Century Parkway, Suite 100		
CITY	Atlanta,	STATE/ZIPCODE	GA 30345

PROPERTY INFORMATION			
TAX PARCEL ID	0220010027	PROPERTY SIZE (ACRES)	6.88
PROPERTY ADDRESS	1765 NW Rockdale Industrial Blvd.		
CITY	Conyers	COUNTY	Rockdale
STATE	GA	ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Frey-Moss Structures, Inc	PHONE #	(770) 483-7543
MAILING ADDRESS	P.O. Box 459		
CITY	Conyers,	STATE/ZIPCODE	GA 30012

PROPERTY INFORMATION			
TAX PARCEL ID	022001017B	PROPERTY SIZE (ACRES)	14.14
PROPERTY ADDRESS	NW Industrial Blvd.		
CITY	Conyers	COUNTY	Rockdale
STATE	GA	ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Latex Construction Company	PHONE #	(770) 760-0820
MAILING ADDRESS	P.O. Box 917		
CITY	Conyers,	STATE/ZIPCODE	GA 30012

1000 Corporate Centre Drive, Ste. 250
Franklin, Tennessee 37153
615-771-2480 (o)
615-771-2459 (f)